DOCUMENT RESUME

ED 179 443 SO 012 143

TITLE A List of Books on the Marine Environment for Children and for Young People.

INSTITUTION Delaware Univ., Newark. Coll. of Education.; Delaware Univ., Newark. Coll. of Marine Studies.

SPONS AGENCY Du Pont Corp., Wilmington, Del.; National Oceanic and Atmospheric Administration (DOC), Rockville, Md. National Sea Grant Program.; National Oceanic and Atmospheric Administration (DOC), Rockville, Md. Office of Coastal Zone Management.; Office of Education (DHEW), Washington, D.C. Office of Environmental Education.

PUB DATE 79

NOTE 69p.; For a related document, see SO 012 142

AVAILABLE FROM Project COAST, College of Education, University of Delaware, Newark, DE 19711 ($2.00)

EDRS PRICE MF01 Plus Postage. PC Not Available from EDRS.

DESCRIPTORS *Adolescents; *Childrens Books; Educational Resources; Elementary Secondary Education; Fiction; *Marine Biology; Natural Sciences; *Oceanology; Physical Environment; Physical Geography

ABSTRACT

This annotated bibliography lists approximately 900 books on the marine environment, most of which are in the collection of the University of Delaware's Project COAST (Coastal and Oceanic Awareness Studies). A majority of the books, which include both fiction and nonfiction, were published within the last twenty years. Although the document is divided in two sections, Children's Books and Young People's Books, the sections overlap and both should be considered in selecting books for each age group. Entries within the two sections are arranged alphabetically by title. (Author/KC)

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A List of

BOOKS ON THE MARINE ENVIRONMENT

for

Children and for Young People

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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SP 012 453

Third Edition

1979

PROJECT COAST

204 Willard Hall Education Building

University of Delaware

Newark, Delaware 19711

PARTIALLY SUPPORTED BY

Delaware Sea Grant Program

and

Office of Coastal Zone Management

National Oceanic and Atmospheric Administration

United States Department of Commerce

Office of Environmental Education

U.S. Office of Education

U.S. Department of Health, Education and Welfare

DuPont Educational Aid Committee

E. I. DuPont de Nemours and Company

College of Education

University of Delaware

A List of
Books on the Marine Environment

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PROJECT COAST

ANNOTATED LIST OF CHILDREN'S BOOKS ABOUT THE MARINE ENVIRONMENT

This publication is an annotated list of books on the marine environment, most of which are in the collection of the University of Delaware's Project COAST (Coastal and Oceanic Awareness STudies).

The purpose of this listing and of the collection of books is to make it possible for teachers to become acquainted with some of the many books available in the field. Schools in the area of Delaware may borrow the books to use in many ways:

to examine before deciding on book purchases for their school libraries;

to complement marine environment instructional materials developed by Project COAST;

for book displays to create awareness and knowledge of coastal and oceanic environments among students, faculty and others;

and simply for reading enjoyment.

We would appreciate receiving suggestions concerning worthwhile titles to add to the collection. They may be sent to

Fran Price, Project COAST
204 Willard Hall Building
College of Education, University of Delaware
Newark, DE 19711

You will note that this book is divided into two sections. This division is not intended to discourage younger people from reading more advanced books. Nor are the books listed for young people in the second section the only ones of interest to adolescents. The sections overlap each other, and both should be considered in selecting a wide range of books for either children or young people.

The annotations are those of Project COAST in most cases. Credit is given for other annotations used, where that information was available. Two annotation sources used in this book are as follows:

* Books on Exhibit. 1976. Mt. Kisco, NY 10549

** A Bibliography of Popular Books on the Marine Environment and Wetlands Ecology. 1971. Marine Environment Curriculum Study, University of Delaware, Newark, DE 19711.

ANNOTATED LIST OF

CHILDREN'S BOOKS ABOUT THE MARINE ENVIRONMENT

ABOUT RIVERS. Albert Dickey. Melmont Publishers, Inc. 1959. 32 pages. Informational.
An explanation of where rivers begin and some of their experiences as they flow along. Black-and-white photographs enhance the appeal of this book.

ABOUT THE BIGGEST SALMON. Will Hayes. Illus. by Henry Luhrs. Melmont Publishers, Inc. 1961. Grades 3-4. 32 pages. Fiction.
A factual account of the lifespan of one salmon. Could be used as a reference book.

ADMIRAL NELSON. H. Bellis. McGraw-Hill Book Co. 1968. Grades 5-6. 60 pages. Biography.
A biography about the British naval hero Admiral Horatio Nelson. Tells about Nelson from his youth, through a brilliant career, to his death aboard the battleship he commanded. Black-and-white drawings.

ALEC'S SAND CASTLE. Lavina Russ. Illus. by James Stevenson. Harper and Row. 1972. Grades K-3. 30 pages. Picture book. Fiction.
A book for children of all ages. Alec proves the value of mind-over-matter when grownups take over his sand castle. Delightful pen-and-ink and watercolor-wash cartoons.

ALL ABOUT FISH. Carl Borgar. Random House. 1960. Grades 5-8. 132 pages. Illustrations by author. Informational.
Title of book suggests its purpose: to tell us all about fish. Information includes everything from the four basic characteristics that typify this class of organisms, to myths about fish, to fishing for sport or food. Illustrations contribute to the general scheme of text.

ALL ABOUT THE SEA. Ferdinand C. Lane. Illus. by Fritz Kredel. Random House. 1953. Grades 5-6. 130 pages. Informational.
A general exploratory book about the marine ecosystem. Tells how the sea began, briefly describes sea life, and concludes with an explanation of man's relationship to the sea. Could be used as a listening exercise for lower intermediate children.

ALL KINDS OF SEALS. Bernice Kohn. Random House. 1968. Grades 5-6. 81 pages. Informational.
A descriptive book showing how seals changed from land to sea animals, their environment, and their relationship to man. Could be used as a reference book.

ALONG THE SEASHORE. Margaret Waring Buck. Abingdon Press. 1964. Grades 6-8. 72 pages. Bibliography. Informational.
An excellent field guide for seaside trips, for study of the sea, plant life and animal life. Each easily located entry is illustrated with small line drawings and described with succinct yet interesting text.

THE AMPHORA - A BOAT YOU CAN BUILD FOR UNDERWATER RESEARCH. Peter and Mike Stevenson. Charles Scribner's Sons. 1975. Middle school and up. 64 pages. Informational.
While the building of the Amphora would require a knowledgeable adult's doing most of the work, the air pump and lift-rack strainer, underwater viewer, boarding step and diving buoy might be constructed by an enterprising middle school child. Step-by-step directions for full assembly of all pieces of equipment are clearly diagrammed and illustrated with photographs. Materials lists and line drawings are included.

AND I MUST HURRY FOR THE SEA IS COMING IN. George Mendoza. Prentice-Hall, Inc. 1969. Grades K-3. 32 pages. Fiction.
A black youth's fancy takes him on an ocean voyage far removed from his life in a decaying ghetto neighborhood. This children's book may appeal more to adults than to juveniles. Color photographs by Dewayne Dalrymple were taken aboard Intrepid, defender of the America's Cup.**

** Schweitzer, James P., Editor. A Bibliography of Popular Books on the Marine Environment and Wetlands Ecology. 1971. Marine Environment Curriculum Study, University of Delaware, Newark, DE.

ANIMALS OF THE SEA. Marcelle Verite. Illus. by Romain Simon. Childrens Press. 1964. Grades 4-8. 63 pages. Informational.
This brilliantly illustrated book is the American adaptation of the French book Animaux de la Mer. Each of the 25 sections describes a sea animal or group of marine animals. Sections on the Sargasso Sea, the Great Barrier Reef, and the Galapagos Islands are also included.

ANIMALS THAT BUILD THEIR HOMES. Robert M. McClung. National Geographic Society. 1976. Grades 1-3. 32 pages. Informational.
Basic text. Includes beavers, crabs, sticklebacks, and flamingos, among other home-building animals of land, sea and air. Remarkable color photographs.

ANIMALS WITHOUT BACKBONES. Robert Pfadt. Illustrated by Dot Barlowe. Follett Pub. Co. 1967. Grades 3-8. 32 pages. Soft cover. Informational.
Attempts to describe the biological scheme of the invertebrate phyla. Explained and illustrated simply, but the biological vocabulary may be too overwhelming for the young child in one sitting. Good reference for the older child. Color illustrations on each page.

AQUARIUM FISH FROM AROUND THE WORLD (Nature and Man Series). Klaus Paysan. Lerner Pubns. Co., Minneapolis. 1970. Grades 5-12.

THE ART AND INDUSTRY OF SANDCASTLES. Jan Adkins. Walker Publishing Co. 1971. Grades 3-8 and all other readers. 29 pages. Informational.
This unique book cleverly combines the popular seaside occupation of sand castle building with the lives and times of ancient castle dwellers. The handsome monochrome illustrations show the sand castle builder the how and why of castle construction; they help develop a vocabulary and a historical perspective in the process. Thoroughly enjoyable.

THE ATLANTIC: SEA OF DARKNESS. George Massalman. McGraw-Hill, Inc. 1969. Grades 6-12. 127 pages. Informational.
The author traces the history of the early exploration the Atlantic from Pytheas the Greek to John and Sebastian Cabot. The book is well written and is generously illustrated. There is an index and bibliography.**

BAYOU BACKWATERS. Allan W. Eckert, with an introduction by Marlin Perkins. Doubleday & Co. 1968. Grades 5-8. 155 pages.
Written in a flowing narrative style, this book describes the contrasting violence and serenity of animal life in the remote and virtually unspoiled bayou country of Louisiana. The book is indexed and contains 50 elegant watercolors by artist Joseph Cellini. **

THE BEACH BEFORE BREAKFAST. Maxine Kumin. Illustrated by Leonard Weisgard. G.P. Putnam's Sons. 1964. Grades K-3. 46 pages. Fiction.
Fictionalized account of the sights and sounds one encounters during a walk on the beach. Not an action-packed story, but good to accompany a field trip to the beach. Black and white and color illustrations.

THE BEACHCOMBER'S BOOK. Bernice Kohn. Illus. by Arabelle Wheatley. The Viking Press. 1970. Grades 4-8. Informational.
For the child who has access to the beach, this book offers suggestions for artistic and scientific activities. How to press seaweeds, and how to make beach collages and mobiles are examples. Index, bibliography and brief catalogue of Atlantic and Gulf Coast shells are included.

A BEACHCOMBER'S BOTANY. Loren C. Petry. Illus. by Marcia G. Norman. Chatham Press. 1968. Grades 5-8. 158 pages. Informational.
A detailed account of flora and fauna of the New England Coast. Exquisite pencil drawings of plants and marine algae, with a descriptive account of each, make this a high-interest book.

THE BEACHCOMBER'S HANDBOOK OF SEAFOOD COOKERY. Hugh Zachary. Illus. by Claude Howell. John F. Blair, Publisher. 1969. For all readers. 208 pages. Informational.
More than a cookbook, this book is a serious commentary on seaside conservation. There's a recipe for just about every common marine animal, including the octopus. The line drawings are decorative, and there is a serviceable index.

THE BEAVER POND. Alvin Tresselt. Illus. by Roger Duvoisin. Lothrop, Lee and Shepard Co. 1970. Grades 1-6. 17 pages. Fiction.
Follows the construction of a beaver pond and meadow. There are about 28 illustrations, most of which are in color.

BEGINNERS' GUIDE TO FRESH-WATER LIFE. Leon A. Hausman. G.P. Putnam's Sons. 1950. Grades 5-up. 128 pages. Informational.
A handy field guide for collecting freshwater specimens. Brief descriptions accompany black-and-white line drawings. Bibliography.

THE BIG BOOK OF REAL BOATS AND SHIPS. George J. Zaffo. Grosset and Dunlap. 1951. Grades 3-6. 23 pages. Informational.
Descriptive account of different types of sea craft. Large pictures help demonstrate characteristics of each craft.

THE BIGGEST HOUSE IN THE WORLD. Leo Lionni. Pantheon Books, Inc. 1968. Grades K-2. 30 pages. Fiction.
A story about a snail and its longing for the "biggest house." Large, colorful pictures enhance the appeal of this book for the youngest readers.

BIRTH OF AN ISLAND. Millicent E. Selsam. Illus. by Winifred Lubell. Harper and Row Publishers. 1959. Grades K-3. 47 pages. Fiction.
In story fashion the book tells of the birth of an island from an oceanic volcano. Then it describes the natural succession of plants and animals that come to live on the island.

THE BLUE LOBSTER: A LIFE CYCLE. Carol and Donald Carrick. Illustrated by authors. The Dial Press. 1975. Grades 3-6. 26 pages. Hard cover. Fiction/Informational.
"Told in simple text and stunning watercolor pictures, THE BLUE LOBSTER shows young readers the mysterious and lovely underwater world of an animal that existed long before man, a world where the continuing cyclical pattern of life seems both natural and miraculous."

THE BLUE WHALE. Kazuo Mizumura. Thomas Y. Crowell Co. 1971. Grades 3-4. 34 pages. Informational.
This factual book about whales, especially the blue whale, includes a message about possible extinction of that animal. Pictorial accompaniment reinforces the facts presented.

BOATS. Ruth Mabee Lachman. Illus. by Lenora and Herbert Combes. Golden Press. 1951. Grades N-2. 22 pages. Picture book. Informational.
Lots of action, plenty of boats, large print, relatively simple text (but enough difficult words to require help for the beginning reader) make this a fun book for very young children.

THE BOOK OF FANTASTIC BOATS. Christine Bernard. Illus. by Roy Coombs. Golden Press. 1974. Grades 4-7. 30 pages. Glossary. Informational.
Magnificent color plates dominate each page. The brief text contains facts and trivia to intrigue middle-school students. The picture of each boat is captioned with date, country of origin, size and prominent feature or use.

A BOOK OF SNAILS. Sally Moffat Kellin. Photographs by Martin Iger. Wm. R. Scott, Inc. 1968. Grades 5-6. 48 pages. Informational.
This reference book about snails includes their life cycle and instructions for keeping snails as pets in terrariums. Reference is made to why snails may be considered pests. Black-and-white photographs help to make this book a good selection for reluctant readers.

THE BOTTOM OF THE SEA. Augusta Goldin. Illus. by Ed Emberley. Thomas Y. Crowell Co. 1966. Grades K-2. 34 pages. Informational.
A descriptive book about the land under the ocean. Canyons, reefs, volcanos and cliffs are among the formations explained in brief terms. Illustrations help to make the definitions understandable to young readers.

BOY ON THE MAYFLOWER. Iris Vinton. Scholastic Book Services. 1957. Grades 4-5. 63 pages. Historical fiction.
Action and easy dialogue give the reader the impression of being aboard the Mayflower with 13-year-old Will Latham on the trip to the New World. Graphic descriptions of the hardships of the trip. The text of the Mayflower Compact is included.

BURT DOW: DEEP-WATER MAN. Robert McCloskey. The Viking Press. 1963. Grades 3-4. 63 pages. Fiction.
A tall tale about a fisherman who catches a whale by the tail and then bandages it with striped bandaging. The events that happen afterward hold the interest of the reader. Large, colorful pictures make this a book which should be enjoyed by even the younger.

BY THE SEASHORE. Cecil and Winifred Lubell. Parents' Magazine Press. 1973. Grades 4-5. 63 pages. Poetry. Informational.
A unique approach to various animals and shells one might find along the seashore. The reader experiences the emotional impact of blank verse with instructional content. Many drawings.

THE CALL OF A LOON. Written and illustrated by John Hamberger. Four Winds Press. New York. 1969. Grades 3-7. Fiction.
With wonderful drawings but sketchy text, there is actually very little information conveyed in this book. The plot hinges on the echo off the mountains of a loon's call, making him think that he has found a mate when he has not.

CANALBOAT TO FREEDOM. Thomas Fall. Dell Publishing Co. 1966. Grades 6-7. 211 pages. Historical fiction.
A well-written, fast-moving tale of life along the Delaware and Hudson Canal in the 1840's. Story of a young indentured servant befriended by a black deckhand. They become part of the Underground Railroad.

CAPTAIN COOK. H. Bellis. Illus. by Paul Popper Limited. McGraw-Hill Book Co. 1968. Grades 5-6. 60 pages. Biography.
This biography about the British explorer Captain James Cook gives details of his voyages. Pencil drawings and maps are used for further explanation.

CAPTAIN COOK: PACIFIC EXPLORER. Ronald Syme. Illus. by William Stobbs. Wm. Morrow and Co. 1960. Grades 3-4. 96 pages. Biography.
This biography about the British explorer Captain James Cook realistically traces his life from early boyhood to his death. Details of his explorations are woven into the story.

CATCH A WHALE BY THE TAIL. Edward R. Ricciuti. Illus. by Geoffrey Moss. Harper and Row Publishers. 1969. Grades K-3. 61 pages. Fiction.
This interesting story of an expedition to catch a companion and mate for a small white whale in an aquarium is enhanced by the use of attractive cartoons.

THE CHALLENGE OF THE SEA. Arthur C. Clarke. Illus. by Alex Schomburg. Holt, Rinehart, and Winston. 1960. Grades 5-7. 168 pages. Informational.
Explores past, present, and future ocean technology, from the invention of the diving bell to plankton farming and learning how to domesticate porpoises. Explains complex subjects in terms children can easily understand. Leads the reader on an exciting tour of an underwater hotel of the future. Deals with the mysteries of the sea such as the language of whales, sightings of sea serpents, and the possibility that there really was an Atlantis. Compelling adventure tale with many interesting facts. Index.

THE CHALLENGE OF THE SEAFLOOR. Adelaide Field. Houghton Mifflin Co. 1970. Grades 6-12. 133 pages. Informational. This book gives the story of the development of the submarine, with particular emphasis given to the scientific research vessel, the Alvin. It traces the development of the Alvin and details its journeys. A high-interest book for the student interested in mechanical means of underwater exploration. Closes on a note of concern for the ecological preservation of the sea.

THE CHANGEABLE WORLD OF THE OYSTER. Joseph J. Cook. Dodd, Mead & Co. 1974. Grades 6-8. 80 pages. Informational.
This is quite a thorough discussion of the oyster, including its anatomy and reproduction, predators, diseases and environmental problems. There are very interesting sections on its history, the culture and harvesting of oysters, and finally how to eat them. It includes a bibliography, index and black and white photographs.

A CHANGING WORLD FOR WILDLIFE. George Fichter. Illustrations by Jo Polseno. Golden Press. 1977. Grades 6 & up. 141 pages. Informational.
This highly informational text explores the past of now-extinct animals as well as the present and future of today's endangered species. Discusses natural extinction, evolution, adaptation, and other phenomena in nature that contribute to the elimination or survival of some animals. Man's exploitation in this matter is examined, as well as his attempts to correct his mistakes. Chart of "Endangered Wildlife" in addition to colorful, well-drawn illustrations contribute to the book's overall appeal.

A CLOSER LOOK AT OCEAN LIFE. Susannah and David Cook. Illus. by Roy Coombs. Franklin Watts. 1976. Grades 6 and up. 30 pages. Informational.
Presents various types of sea and shore animals - from the filter feeding sponges to the giant whales. Illustrations are captioned and often have an interesting paragraph about the animal.

A COASTAL POND: STUDIED BY OCEANOGRAPHIC METHODS. K. O. Emery. American Elsevier. 1969. 80 pages. Grades 4-8. Informational.
Over a period of several years, Dr. Emery studies his "backyard ocean:" Oyster Pond, a brackish water pond near Woods Hole, Mass. High school teachers who are interested in doing field work in marine studies will find this book to be of enormous value. It illustrates what should be the result of well-directed field work. **

CORALS. Herbert S. Zim. Illus. by Rene Martin. Wm. Morrow & Co. 1966. Grades 5-6. 63 pages. Informational.
This book discusses the physiology and variety of corals as well as theories on the development of coral reefs and atolls. Special emphasis is placed on the Florida Keys, especially the underwater park off Key Largo. Black-and-white illustrations.

THE CRAB FROM YESTERDAY: THE LIFE CYCLE OF A HORSESHOE CRAB.
W.T. Mars. Frederick Warne and Co., Inc. 1970. Grades K-3. 40 pages. Fiction.
The life history and ecology of the horseshoe crab are woven into a fictional account of a small boy's day of beachcombing. Mr. Waters is a very sensitive writer. Illustrations also make this a highly recommended book.

CRABS. Herbert and Lucretia Krantz Zim. Illus. by Rene Martin. William Morrow & Co. 1974. For beginners and others. 64 pages. Informational.
Quite a thorough and well illustrated manual on common crabs with brief introductions to anatomy, life cycle, behavior, and identification. A one-page index.

CREATURES OF THE DEEP. Agnes McCarthy. Illus. by Edna Miller. Prentice-Hall, Inc. 1963. 79 pages. Informational.
A book about various kinds of life in the sea, some familiar but all intriguing. Much information about life in the sea.

CRYSTALS FROM THE SEA: A LOOK AT SALT. A. Harris Stone and Dale Ingmanson. Prentice-Hall, Inc. 1969. Grades 3-6. 63 pages. Informational/experimental.
The authors are professors of science education at Southern Connecticut State College. They describe 30 or so experiments a youngster can do with salt. The book should have included more about the role of salt in the sea. There is a glossary and about 35 illustrations by Peter Plasencia.**

THE CURIOUS WORLD OF THE CRAB. Joseph J. Cook. Dodd, Mead & Co. 1970. Upper middle school and others. 96 pages. Informational.
Illustrated mostly by black-and-white photographs, this book contains a chapter on crabs in general as crustaceans and 39 pages describing various crabs of the world. One chapter is devoted to non-crab, the horseshoe crab (Limulus), as a living fossil. There is a short discussion on crab mythology. The last chapter deals with crabs as seafood for people.

CYRA-NOSE THE SEA ELEPHANT. Lou Jacobs, Jr. Childrens Press. 1973. Grades 3-4. 48 pages. Informational.
Actual photographs and simple text follow a sea elephant from his Guadalupe home into the nets of some humans, and finally into the performing spotlight at Marineland. Story is told from the sea elephant's point of view. Entertaining. Includes glossary.

CYRUS THE UNSINKABLE SEA SERPENT. Bill Peet. Houghton Mifflin Co. 1975. Grades 1-3. 46 pages. Picture book. Fiction.
A profusely illustrated children's story about a sea serpent helping a sailing ship through storm and pirate attack. Very entertaining.

DANGEROUS SEA CREATURES. Thomas A. Dozier. Time-Life Films, 1976. Grades 6 and up. 128 pages. Informational.
An introduction to all manner of frightening sea animals, from poisonous invertebrates to sharks and sea monsters. Text, drawings and spectacular photographs. Special selections from Homer, Rachel Carson, Jacques-Yves Cousteau, and Thor Heyerdahl.

A DAY AT THE BEACH. Mirea Vasiliu. Illustrated by the author. Random House. 1977. Grades K-3. Soft cover. 30 pages. Fiction/Informational.
In a show-and-tell style that would appeal to younger readers. The author explores the activities, plants, and animals one might enjoy while spending a day at the beach. Not highly informative, but adequate for the pre-schooler.

A DAY IN THE LIFE OF A SEA OTTER. Kay McDearmon. Dodd, Mead and Co. 1973. Grades 1-3. 45 pages. Informational.
The author presents a touching picture of the sea otter's tender nurturing of her offspring. Black-and-white photographs.

DEEP-SEA WORLD: THE STORY OF OCEANOGRAPHY. Charles Coombs. Wm. Morrow & Co. 1966. Upper Intermediate-Middle School. 251 pages. Informational.
Tells about the ocean and man's uses and abuses of it. Begins with how the oceans were formed and presents nearly all aspects of the sea. Terminology of the study of oceanography explained in context, indicating this book of value to students with high interest in this area. Charts and photographs numerous.

DISCOVERING THE AMERICAN STORK. Jack Denton Scott and Ozzie Sweet. Harcourt, Brace and Jovanovich, Inc. 1976. Upper Intermediate. 64 pages. Informational.
This factual account of the life of the American stork, a recently discovered species, also includes myths about the stork. It presents unique qualities of the American wood stork and discusses efforts to preserve the species in Florida. Black-and-white photographs.

DISCOVER THE ATLANTIC OCEAN: AN EXCITING COLORING BOOK OF FISH AND SHELLS. Ron Clayton, illustrator. George Flick, text. Janice Ford, design. NOAA Office of Sea Grant, Dept. of Commerce. No date. Grades K-3. 38 pages. Soft cover. Activity/Informational.
An exciting coloring book of fish and shellfish that illustrates those commonly found on the Atlantic Coast. More than 79 animals are depicted; each illustrated page is accompanied by text. Pictures are especially well done.

DIVING FOR TREASURE. Wyatt Blassingame. Macrae-Smith Co. 1971. Grades 5-8. 146 pages. Informational.
Eight adventure stories of search for sunken treasure. This well-written collection of stories of the lure of wealth, the fascination of archaeological discovery, and ever-present danger is bound to thrill the young reader.

DOLPHIN. Robert A. Morris. Illus. by Mamoru Funai. Harper and Row. 1973. Grades 1-2. 62 pages. Informational.
This "Science I Can Read" book introduces the reader to the birth and growth of a dolphin. Particular emphasis is placed on the nurturing by the mother and protection by the pod. Illustrations are sensitive yet exciting.

DOLPHIN ISLAND. Arthur C. Clarke. Holt, Rinehart and Winston. 1963. Grades 6-9. 186 pages. Fiction.
A science-fiction novel of hovership, dolphin-to-human communication, encounters with killer whales, typhoons, and scuba diving along Australia's Great Barrier Reef. Johnny Clinton cannot know what adventures await him the night he stows away on a disabled hovership.

DOLPHINS! Margaret Davidson. Illus. by Irma Wilde. Scholastic Book Services. 1973. Beginning readers. 48 pages. Informational.
This very elementary book describes the life of dolphins and is illustrated generously in monochrome.

DOLPHINS - SEA PEOPLE. Esse Forester O'Brien. The Naylor Co. 1965. Grades 6 and up. 95 pages. Informational.
With the dolphins' friendly cooperation, humans are studying and learning to communicate with these intelligent, playful, and emotional individuals who inhabit the sea. Photographs and bibliography.

DOWN THE MISSISSIPPI. Clyde Robert Bulla. Illus. by Erwin Hoffmann. 1954. Scholastic Book Services. 1961. Grades 4-5. 80 pages. Historical fiction.
A fast-moving account of a Minnesota farm boy's raft trip down the Mississippi River. Keeps the reader involved to the end.

DRAWING BOATS AND SHIPS. Yngve Edward Sodarberg. Pitman Publishing Corp. 1959. Grades 6 and up. 46 pages. Informational.
More than a handbook to aid the aspiring artist, this book is also a collection of sketches of various kinds of boats, ships, and other marine objects, all labeled and described. A possible reference source for units on boats, ships, the fishing industry, and navigation. Glossary of nautical terms.

DRAWING SEA AND SKY. Victor Perard. Pitman Publishing Co. 1948. Grades 6 and up. 46 pages. Instructional.
Various cloud types and animate and inanimate objects found in or near water are depicted in pencil, brush, and pen drawings on every page of this instructional art book. Brief notes accompany the drawings.

EASY EXPERIMENTS WITH WATER POLLUTION. Harry Sootin. Illus. by Lucy Bitzer. Four Winds Press. 1974. Intermediate. 110 pages. Informational.
Water testing and pollution experiments are carefully explained to inform students on pesticide runoff, sewage disposal, detergent biodegradability and industrial pollution. Information on hardness, aeration, chlorination, indicator organisms and waterborne diseases. Index and reading list.

THE EEL'S STRANGE JOURNEY. Judi Friedman. Illus. by Gail Owens. Thomas Y. Crowell. 1976. Grades 1-3. 33 pages. Picture book. Informational.
The story of the eels' remarkable migration from the Sargasso Sea to the streams and ponds of North America and their subsequent return to the same sea to spawn is told within the context of the life cycle. Questions as yet unanswered about eels are posed. Excellent illustrations.

ELISABETH AND THE MARSH MYSTERY. Felice Holman. Illustrated by Erik Blegvad. The Macmillan Company. 1966. Lower Intermediate. 49 pages. Fiction.
A mystery story that offers information as well as intrigue. Elisabeth and a friend try to identify strange calls from the marsh; thus they learn about bird migration. The facts in the book do not seem dull because humor is maintained throughout the story.

ELISABETH, THE TREASURE HUNTER. Felice Holman. Illustrated by Erik Blegvad. The Macmillan Company. 1964. Lower Intermediate. 42 pages. Fiction.
A story about Elisabeth, Papa, and a friend who are looking for hidden treasure. The person who hid the treasure gives them clues. In trying to follow the clues, they discover life on the shore. The plot overshadows information about marine life.

ESTUARIES - WHERE RIVERS MEET THE SEA. Laurence Pringle. Macmillan Publishing Co. 1970. Grades 3-6. 55 pages.
Sensitive black and white photographs capture the teeming life in that area where the river meets the ocean. An especially well-designed book which conveys the economic and biological importance of the nation's estuaries. Discussion and map of Chesapeake Bay.

EXPLORERS OF THE DEEP. Donald W. Cox. Illus. by Jack Woodson. Hammond, Inc. 1968. Middle School. 93 pages. Biography.
This book tells the stories of eighteen men who have made contributions to the study of the sea. It begins with Benjamin Franklin and concludes with contemporary oceanographer Roger Revelle. A chapter is devoted to future technological explorations of the ocean.

EXPLORING A BROOK: LIFE IN THE RUNNING WATER. Winifred and Cecil Lubell. Parents Magazine Press. 1975. Lower Intermediate. 61 pages. Informational.
A one- or two-page explanation of each of various kinds of plant and animal life found in and near a brook. Pencil sketches illustrate each description.

EXPLORING A CORAL REEF. Robert F. Burgess. Illustrated by Ronald Himler. The Macmillan Co. 1972. Grades 3-10. 36 pages. Informational.
This guide to exploring the plants and animals of a coral reef includes many sketches of marine life, along with detailed, interestingly written information. Eight experiments are suggested. Harry Milgrom is science consultant and experiments and investigations are by Leon Dorfman. Book contains an index and a glossary.

EXPLORING AN OCEAN TIDE POOL. Jeanne Bendick. Illus. by Robert Bendick. Garrard Publishing Co. 1976. Grades 2-4. 64 pages. Informational.
Examines the ecosystem of a tide pool. Discusses tides, tidal zones, the formation of tide pools, the plants and animals found in a tide pool, and the effects of pollution on a tide pool and the ocean. Both color and black-and-white photographs included.

EXPLORING AND UNDERSTANDING OCEANOGRAPHY. Anabel Dean. Benefic Press. 1970. Lower and Upper Intermediate. 96 pages. Informational.
A question-and-answer format is used to explain the fundamentals of oceanography. It begins with a description of the planet Earth; tells about currents, waves, and tides; and concludes with a discussion of underwater exploration and treasures from the sea. Each chapter concludes with questions and simple experiments. A resource book that would be of value for a learning experience about oceanography.

EXPLORING AND UNDERSTANDING WATER. Merill C. Fellger. Benefic Press. 1968. Grades 3-6. 96 pages. Informational.
One of a series of similar books on a variety of science-related topics, this book explores most of the aspects of water that might interest pupils in the intermediate grades. Some of the concepts are not well developed, but on the whole the book has merit. There is a glossary, index, and appendix. Part of the Exploring and Understanding Series.**

EXPLORING THE SECRETS OF THE SEA. William J. Cromie. Prentice-Hall. 1962. Grades 6-9. 300 pages. Informational.
Oceanographer Cromie reveals the history and adventure of the marine environment's geology, physics, and biology from Darwin to the IGY era. The book is well written and has gone through many printings. Art work is by George Geygan. There are chapter notes and an index.**

EXPLORING THE WORLD OF OCEANOGRAPHY. Dorothy Telfer. Childrens Press. 1968. Grades 4-8. 87 pages. Informational/vocational.
This book entices youngsters to consider oceanography as a career. It describes some of the personality traits common among oceanographers and it indicates that extensive academic training may be needed to specialize in ocean science. There are 77 illustrations and a list of universities specializing in oceanography. **

FAMOUS SMALL BOAT VOYAGES. Walter Buehr. G. P. Putnam's Sons. 1966. Grades 4-6. 128 pages. Informational.
Discusses the preparations and adventures of the crews of nine small boats on long and hazardous voyages. Included are tales of the first Atlantic crossing by a lone woman, the first Atlantic crossing in a rowboat, and the first singlehanded cruise around the world. Illustrated with two-color sketches.

A FIELD GUIDE TO THE SHELLS OF OUR ATLANTIC AND GULF COASTS. Percy A. Morris. Houghton Mifflin Co. 1951. Middle School-High School. 228 pages. Informational.
Primarily an identification guide to over 500 kinds of shells. Also tells about the life-styles of many sea animals. Provides information about emptying shells, recording finds, and classifying and associating different kinds of shells.

FINS AND TAILS: A STORY OF STRANGE FISH. Elizabeth A. Campbell. Illus. by Leonard Weisgard. Little, Brown & Co. 1963. Lower Intermediate. 58 pages. Informational.
A story about different kinds of fish found in the oceans. Using analogies (e.g., swimming balloon for puffer), the author describes some varieties of strange fish in simple sentences. Pictures accompany each description.

THE FIRST BOOK OF SWAMPS AND MARSHES. Frances C. Smith. Franklin Watts, Inc. 1969. Grades 5-7. 64 pages. Informational.
A carefully-written, well-designed book for the young naturalist. Exceptional photography and poetic prose project a sensitive portrait of some of America's wetlands.

THE FIRST BOOK OF THE OCEAN. Sam and Beryl Epstein. Illus. by Walter Buehr. Franklin Watts, Inc. 1961. Upper Intermediate. 70 pages. Informational.
An exploratory book about oceans including tides, waves, currents, the ocean floor, continental shelves and slopes. Life in the ocean is discussed and future hopes for the world in the ocean are noted. Illustrated with sketches.

THE FIRST BOOK OF THE SEASHORE. Wyatt Blassingame. Illus. by Fred Sweney. Franklin Watts, Inc. 1964. Upper Intermediate. 58 pages. Informational.
A description of the seashores of the world. Tells about the plant and animal life found there and the processes that affect it. The author attempts to impart understanding of things seen at the seashore. Pencil sketches illustrate some of the forms of plant and animal life.

A FIRST LOOK AT FISH. Millicent E. Selsam. Illus. by Harriet Springer. Walker and Co. 1972. Grades 1-2. Informational.
What is a fish? How can you tell kinds of fish apart? Children can discover these things for themselves with this see-and-do book.

THE FISH BOOK. Dick Martin. Golden Press. 1964. Grades N-K. 24 pages. Picture book. Large, clear illustrations, one topic per double-page spread, and a minimum of text make this a good book for the very youngest children. Marine animals and birds included in addition to fish.

FISH DO THE STRANGEST THINGS. Leonora and Arthur Hornblow. Illus. by Michael K. Firth. Random House. Grades 2-3. 60 pages. Picture book, informational.
This book deals with some unusual behaviors of various fish and is written with the kind of humor sure to tickle the funnybone of the typical 7- to 9-year-old. The text is a challenge but worth the effort. Illustrations of the remora "who really uses his head," the remarkable aim of the spitting archer fish, and many more eccentrics of the deep are adequate.

FISH FOR SUPPER. M. B. Goffstein. The Dial Press. 1976. Grades K-2. Picture book.
The story follows a grandmother on a fishing trip—as she eats breakfast at five o'clock, spends the day fishing, cooks the fish for dinner, and begins another day. It's plain to see why this charming little book is a Caldecott Honor Book. The simple text and line drawings show care in every detail. This is a quiet, comfortable sort of book for "snuggly" moments.

FISH IS FISH. Leo Lionni. Pantheon Books, Inc. 1970. Grades K-2. Fiction.
An enchanting story about the way a fish imagines the outside world as described to him by a wordly frog who's seen it. Beautiful illustrations.

FISHES. Brian Wildsmith. Franklin Watts, Inc. 1968. Primary. 34 pages. Informational.
A picture book about names given to different groups of fish. Illustrated in shimmering colors. Geared to the primary student but holds aesthetic enchantment for lower intermediate groups.

FISHES. Loren P. Woods. Illus. by Tom Dolan. Follett Publishing Co. 1969. Grades 3-6. 32 pages. Informational.
This excellent book on fishes discusses their evolution, distribution, and ecology. The book is enhanced by Tom Dolan's brilliant color illustrations. The sections on coral reef fishes, deep-sea fishes, and fishes of the West Indies are particularly well done.

FISHES. Herbert S. Zim and Hurst H. Shoemaker. Illus. by James Gordon Irving. The Golden Press. 1955. Middle School and others. 160 pages. Informational.
Useful for the identification of the common freshwater and saltwater fishes of North America. Species are identified by color pictures. Common and scientific names are given. Useful guide for beginners.

FISHES AND THEIR YOUNG. Alan Mark Fletcher. Illus. by Allan Eitzen. Addison-Wesley. 1974. Grades 5-7. 46 pages. Informational.
Tells how fish vary enormously in the amount of care they give to their young - from none at all to a considerable degree of protection. Many kinds of fish are covered. Good illustrations.

FISHES DANGEROUS TO MAN. Alan Mark Fletcher. Illus. by Jane Teiko Oka and Willi Baum. Addison-Wesley. 1969. Grades 4-5. 47 pages. Informational.
Fishes dangerous to man are categorized into those which shock, bite, sting, or are poisonous to eat. Short descriptive stories of persons who have had close calls with these frightening animals are followed by informational passages. Black-and-white illustrations are dramatic and well designed.

FISHES THAT HIDE. Alan Mark Fletcher. Illus. by Jean Day Zallinger. Addison-Wesley. 1973. Grades 5-7. 46 pages. Informational.
How fish are camouflaged to obtain food or escape enemies by various shapes and markings and by coloring, transparency, countershading, or changing colors.

FISHES THAT TRAVEL. Alan Mark Fletcher. Illus. by Michael Eagle. Addison-Wesley. 1971. Grades 5-7. 48 pages. Informational.
Describes the migration of some species of fish and unusual methods of locomotion of others, including flying fish and fish which travel on land.

FISHING FOR TUNA. Lewis Allison. Illus. by Robert Bartram. Melmont Publishers, Inc. 1957. Lower Middle School. 35 pages. Informational.
The ships, nets, and procedures of catching tuna are well described, with good monochrome illustrations of the fish and fishing.

THE FLYING LESSONS OF GERALD PELICAN. Nathaniel Benchley. Illus. by Memoru Funai. Harper & Row Publishers. 1970. Grades K-3. 32 pages. Fiction.
Clever dialogue as seaside animals attempt to deal with the predicament of a rash young pelican. Each friendly bird has its own advice on how to fly. There's a happy ending and attractive drawings.

FOUR WALRUSES FROM ARCTIC TO OCEANARIUM. Lou Jacobs, Jr. Wm. R. Scott, Inc. 1968. Grades 6 and up. 62 pages. Informational.
A factual account of the development of four walruses captured in Alaska and raised in California. Actual photographs of the walruses all during development are included. The author speaks of the walruses with affection and describes each one as an individual with unique personality traits in this unusual book.

FRESH AND SALT WATER: THE COMMUNITY OF LIVING THINGS. Bartram B. Cadbury. Creative Educational Society, Inc., Mankato, MN. 1976. Grades 5-9. 128 pages. Informational.
This highly informative text explores a wide spectrum of animal and plant life associated with fresh and salt water environments. Black and white photographs give an added dimension.

FRESH WATER FROM SALTY SEAS. David O. Woodbury. Dodd, Mead and Company. 1967. Grades 6-12. 96 pages. Informational.
All of the industrial methods of desalination (known at that time) that show promise are reviewed. Some of the technical passages may require studied reading. The book is indexed and contains about 35 photographs and drawings.

FRESH WATER: THE PRECIOUS RESOURCE. Delwyn Davies. Natural History Press. 1969. Grades 3-10. 155 pages. Informational.
The book describes the physical, chemical, biological, and geological properties of water. There are 11 chapters, one of which is devoted to marshlands. The book is richly illustrated. It has an appendix and an index.**

THE FRESHWATER EEL. Francine Jacobs. Illustrated by Josette Gourley. William Morrow and Co. 1973. Grades 4-7. 64 pages. Informational.
The story of the scientific detective work that led to current information about eels. Description of the developmental stages and life migration pattern of eels.

THE FRIENDLY DOLPHINS. Patricia Lauber. Illustrated by Jean Simpson. Random House. 1963. Grades 4-6. 79 pages. Informational.
Many different aspects of the dolphin are covered: the history of the dolphin as a friend of man, the dolphin's physical make-up and similarities to other species, and its unique sonar talents. Photographs and sketches are included.

FROGS MERRY. Juliet Kepes. Pinwheel Books. 1973. Grades K-1. 28 pages. Fiction.
A lighthearted story that discusses the interactions of species in a pond. Adorable blue, green and black illustrations provide a pond atmosphere.

FROGS, TOADS, SALAMANDERS AND HOW THEY REPRODUCE. Dorothy Hinshaw Patent. Illus. by Matthew Kalmenoff. Holiday House. 1975. Grades 6 and up. 142 pages. Informational.
The varied and interesting ways different amphibians reproduce, their courtship and mating behavior, and the protection and hatching of the eggs. Emphasis on reproductive habits in relation to embryonic and evolutionary development and environmental adaptations. Excellent black and white drawings are detailed and explicit.

FROM SHORE TO OCEAN FLOOR: HOW LIFE SURVIVES IN THE SEA. Seymour Simon. Illus. by Haris Petie. Franklin Watts, Inc. 1973. Grades 5-6. 86 pages. Informational.
Explains marine ecosystems and food chains, mentioning how humans can upset the ecological balance by oil spills, pesticides and overfishing. Gives fascinating survival mechanisms of various marine species and tells how organisms adapt to particular ecological niches. Highly recommended.

GHOST SHIPS OF THE GREAT LAKES. Dwight Boyer. Dodd, Mead & Co. 1968. Elementary.
Masterful stories that will grip you and move you to the edge of your chair as you read about many Great Lakes ships that have disappeared. Illustrations are included.

GIANT SEA CREATURES - REAL AND FANTASTIC. John F. Waters. Follett Publishing Co. 1973. Grades 6-8. 124 pages. Informational.
Lively text discusses not only the well known giants of the sea but also prehistoric monsters and some enormous creatures which have been discovered during this century. Many photographs and drawings. Includes index and list of other books to read.

GOOD MORNING WHALE. Achim Broger. Illus. by Gisel Kalow. Translated by Elizabeth Shub. Macmillan Co. 1974. Grades K-2. Picture book, fantasy.
A charming story with delightful, colorful illustrations. The story of Karl and his friend the whale. When Karl misses a regular visit, the whale attempts to visit Karl.

GRANDMA'S BEACH SURPRISE. Ilka List. Illus. by Ruth Sanderson. G.P. Putnam's Sons. 1975. Grades K-3. 47 pages. Picture book. Informational.
When Jessie and her dad forget Grandma's birthday present, they collect treasures from the beach to give to her. The young child is introduced to the sensory aspects of the beach. Blue-and-rust illustrations contribute to the feeling of serenity.

GREAT LAKES SHIPWRECKS AND SURVIVALS. William Ratigan. Wm. B. Eerdmans Publishing Co. 1960. Elementary. Illustrations included.
"The Edmund Fitzgerald Edition" is a fascinating account of shipwrecks and survival on the Great Lakes.

GREAT SEA POETRY. Willard Bascom, ed. Illus. by Willard Bascom. Compass Publications, Inc. 1969. Upper Middle-High School. 119 pages. Poetry.
Includes poems by Rudyard Kipling, A. A. Milne, John Masefield, Lewis Carroll, Matthew Arnold, Robert Browning, Oliver Wendell Holmes, Sir William Gilbert, John Gray, and J. Frank Stimson. The poetic nature of the sea becomes evident as one reads the descriptive, emotion-filled lines. A glossary of special words and a gazetteer of places (listed by poem) are included.

GREAT STEAMBOAT MYSTERY. Richard Scarry. Random House. 1975. Grades K-2. 30 pages. Fiction.
Mr. and Mrs. Pig staged a party on a steamboat and hired two detectives to protect the wedding gifts. Nevertheless, there's a theft and quite a mystery until the clever detectives bring the story to a happy ending. Attractive cartoon illustrations.

GREAT WHALES. Patricia Lauber. Garrard Publishing Co. 1975. Grades 4-6. 64 pages. Informational.
Clearly written text describes behavior and characteristics of various whales. Discusses threat of extinction. Chapter on Sea World's Gigi, a California Gray Whale, is great fun to read.

THE GREAT WHALES. Herbert S. Zim. Illus. by James Gordon Irving. William Morrow & Co. 1951. Grades 4-6. Informational.
An extremely detailed description of the physiology of the whale. Different species and habits of whales are discussed and depicted by black and white drawings. The large print helps make this book appealing to young whale enthusiasts.

GREEN TURTLE MYSTERIES. John F. Waters. Illustrated by Mamoru Funai. Thomas Y. Crowell Co. 1972. Grades 3-5. 33 pages. Informational.
Tells how the giant green turtles live, what dangers threaten them and how men are protecting them. Title refers to unknown mysteries of this animal that scientists are studying today. A Let's-Read-and-Find-Out Science Book, every page contains an illustration.

A GUIDE TO FISHING BOATS AND THEIR GEAR. Carvel H. Blair and Willits D. Ansel. Cornell Maritime Press, Inc. 1968. Grades 6-12. 142 pages. Informational.
This fascinating book enables the landsman to tell the difference between a trawler, longliner, and doryman. It describes the various methods used in commercial fishing. There is an index, a glossary, and an extensive bibliography. There are 135 illustrations. **

THE GULF STREAM. Ruth Brindze. Illustrated by Helene Carter. Vanguard Press. 1945. Grades 5 and up. 63 pages. Informational.
Depicts the Gulf Stream as a river in the middle of the Atlantic Ocean whose current is one of the world's greatest weather factories. The Stream's probable effects on our country and other countries throughout history are interestingly included.

GULL NUMBER 737. Jean Craighead George. Thomas Y. Crowell Co. 1964. Grades 6 and up. 198 pages. Fiction.
A boy-into-manhood tale probably of more interest to boys than girls. Though Luke Rivers loves the gulls at his father's remote island laboratory, he resents the time-consuming nature of the research. When catastrophe strikes and Dr. Rivers is requested to help, Luke discovers the value of pure research.

GULLS. Sarel Eimerl. Simon and Schuster. 1969. Grades 4-8. 64 pages. Informational.
Nature writer Sarel Eimerl describes various members of the gull family, their feeding and hunting habits, and their migratory and courtship behavior. Illustrated with 30 black-and-white photographs. Index included.

HALIC: THE STORY OF A GRAY SEAL. Ewan Clarkson. E. P. Dutton & Co. 1970. Upper Middle School. 158 pages. Fiction.
The author's excellent literary skills are evident by the realistic descriptions in this fascinating story of the life of Halic, a gray seal. Several appropriate illustrations make the natural setting even more convincing.

HARBOR TUG. Peter Burchard and Rollie McKenna. G. P. Putnam's Sons. 1975. Grades 6-7. 62 pages. Informational.
The reader goes aboard a tugboat to experience the life of the harbor daily routines and dangers faced by sailors who man the tugs. Black-and-white photographs illustrate this well-designed book.

HARVESTING THE SEA. D. X. Fenten. J. B. Lippincott Co. 1970. Grades 4 and up. 58 pages. Informational.
A good reference for learning about the riches found in the sea (plants, animals, and minerals) and careers related to the harvesting of these riches. Photographs and sketches are good.

HARVEY'S HIDEOUT. Russell Hoban. Illus. by Lillian Hoban. Scholastic Book Services. 1972. Grades K-3. Fiction.
The story of a rivalry between a brother and sister muskrat who soon realize they are lonely and need each other. Good for children with brothers and sisters. Cute, brown illustrations.

HERMIT CRAB LIVES IN A SHELL. Peggy and William Stephens. Illus. by Christine Sapieha. Holiday House Inc. 1969. Grades 2-3. 46 pages. Informational.
Follows the adventures of a tropical land hermit crab as he grows from zoea to fatherhood. Color illustrations.

THE HIDDEN SEA. Douglas Faulkner and C.Lavette Smith. The Viking Press. 1970. Grades 6-12. 148 pages. Informational.
This large and very handsome book contains some of the best underwater photography available. Photographer Douglas Faulkner supplies notes explaining where each photograph was taken. C. L. Smith, an ichthyologist at the American Museum of Natural History, wrote the text. There are 70 color plates. **

HIGH WATER AT CATFISH BEND. Ben Lucien Burman. Illus. by Alice Caddy. Puffin Books. 1974. Grades 4 and up. 123 pages. Fiction.
Enchanting story of five animals who realize they must forget their personal problems and work together. Their home is the Mississippi flood plains and they are disgusted with the way humans are controlling floods. They unite to do something about it.

HOMES BENEATH THE SEA: AN INTRODUCTION TO OCEAN ECOLOGY. Boris Arnov, Jr. Little, Brown & Co. 1969. Grades 6-9. 131 pages. Informational.
Each of the chapters deals with a different habitat in and near the sea: seashore, continental shelf, open sea, coral reef, and the high seas. The book contains well-written passages but it suffers from poor organization. A book of this sort should have a bibliography; this one doesn't. The photographs are good.

HORSESHOE CRAB. Robert M. McClung. Wm. Morrow & Co.. 1967. Lower Intermediate. [illegible] pages. Fiction.
Describes the life cycle of the horseshoe crab, an animal that is a common sight along the Atlantic coastline. Also describes the parts of the horseshoe crab one can observe on the beach. Black-and-white sketches illustrate and add much detail to the text.

HOUSES FROM THE SEA. Alice E. Goudey. Illus. by Adrienne Adams. Charles Scribner's Sons. 1959. Primary. 32 pages. Fiction.
The story of two children who spend a day on the beach collecting shells. Common names of the shells are given in the story. A section at the end of the book shows shells and their names. Author has included two pages explaining how shells are formed. Teacher would read this section to the group. Accurate and imaginative pictures in delicate colors are included.

THE HOW AND WHY WONDER BOOK OF SEA SHELLS. Donald F. Low. Illus. by Cynthia and Alvin Koehler. Grosset and Dunlap. 1974. Grades 3-6. 48 pages.
A good research book that simply and factually answers just about any question a youngster might have about shells.

HOW THE WHALE GOT HIS THROAT. Rudyard Kipling. Illus. by Don Madden. Addison-Wesley. Grades Nursery to adult. 30 pages. Picture book. Fiction.
The tale of how a man of infinite resource and sagacity kept the whale from eating up all the fish in the sea. It's difficult to imagine a more winning combination than Rudyard Kipling and Don Madden. Fun for everyone, from youngest to oldest.

HOW TO KNOW THE AMERICAN MARINE SHELLS. R. Tucker Abbott. The New American Library. 1961. Grades 6 and up. 222 pages. Informational.
Abbott divides his reference book into two parts. In his Natural History Section he discusses the mechanics of having shells as a hobby--collecting and cleaning shells, and organizing shell-collecting clubs. In the Identification Section he describes each type of shell in great detail and refers the reader to color plates included.

HUNGRY SHARKS. John F. Waters. Illustrated by Ann Dalton. Thomas Y. Crowell Co. 1973. Grades 1-5. 33 pages. Informational.
The shark's eating habits, as well as the sensory perceptions related to hunting and eating instincts are explained at a simplistic level. The narrative is accompanied by water color illustrations that lack clarity and detail, but do have a rippling, under-water effect.

I WAS ALL THUMBS. Bernard Waber. Houghton Mifflin Co. 1975. Grades K-3. 48 pages. Picture book. Fiction.
The story of Lyle the Octopus who was scooped up from his comfortable home in the lab tank and set free in the open sea. Prose to delight both child and adult describes the octopus' personality to a T. The art work is brilliant and witty.

I WONDER...ABOUT THE SEA. Enid Field. Photographs by Kim Howard. Children's Press. 1970. Hard cover. Grades K-1. 30 pages. Poetry.
Written in rhyming couplets, the sing-song text asks questions (each beginning with "I wonder...") that represent a child's curiosity about the sea. There is a full-page photo to accompany each 4-line question. Narrative may be too insipid for children beyond kindergarten, and subjects in photographs look a bit outdated.

ICEBERG ALLEY. Madelyn Klein Anderson. Julian Messner. 1976. Grades 5-6. 64 pages. Informational.
This book on Greenland icebergs in Iceberg Alley discusses the types of icebergs, the alley route from Baffin Bay to the Grand Banks, the Titanic, and the International Ice Patrol. An interesting feature is the use of boldface print to introduce new vocabulary words. Glossary, maps, photographs, and drawings.

ICEBERGS AND GLACIERS. Patricia Lauber. Illustrated by Evelyn Urbanowich. Garrard Publishing Co. 1961. Grades 4-5. 64 pages. Informational.
Scientific report of the Big Ice. Tells of the sinking of the Titanic and the work of the International Ice Patrol. Explains how glaciers are formed and where icebergs come from. Tells also about the Ice Age and prospects for a new Ice Age. A Junior Science Book.

ICEBERGS AND THEIR VOYAGES. Gwen Schultz. Wm. Morrow & Co. 1975. Grades 6-8. 95 pages. Informational.
This is a knowledgeable discussion of icebergs, their primary concentrations throughout the world, and the routes they travel. Also described are attempts at controlling icebergs, their present commercial value, and their possible future importance as sources of fresh water. Photographs and maps illustrate the text. Maps showing cold currents in relation to coastal deserts, the major ice shelves of Antarctica, and glacial coverage of Greenland and surrounding areas are especially interesting.

IN THE DEEP BLUE SEA. Elizabeth Morgan. Illus. by Peter P. Plasencia. Prentice-Hall, Inc. 1962. Upper Intermediate-Middle School. 70 pages. Informational.
An account of the sea--its exploration, ocean mining, oil-drilling, harvesting of ocean crops, and fossils of the deep. The book also includes simple explanations of some jobs which can be found involving working under the sea. A beginning study of oceanography. Acquaints reader with past and present research, underwater archaeology, biology, and the importance of the sea for the future.

ISLAND OF THE BLUE DOLPHINS. Scott O'Dell. Houghton Mifflin Co. 1960. Grades 6 and up. 184 pages. Historical fiction.
An account of a young native girl's life alone on the island of the Blue Dolphins. This fascinating tale is based on facts recorded by ship captains who actually knew the girl. A must for adventure lovers.

JELLYFISHES. Elizabath Shephard. Illustrated by Howard Baraleon. Lothrop, Lee and Shepard Co. 1969. Middle School. Informational.
Facts about jellyfish, i.e., locomotion, feeding, life cycle, kinds, and behavior. Book includes suggestions for simple experiments and a short chapter of advice on how to avoid stings. Illustrations and diagrams in black and white.

JOBS IN MARINE SCIENCE. Frank Ross, Jr. Lothrop, Lee, and Shepard Co. 1974. Grades 4-7. 95 pages. Informational.
In simplified manner, this book describes a variety of marine-related occupations and how a young person could prepare for each of them. Jobs include salvage divers, party boat captain, marine geophysicist, fish farmer, chemical oceanographer, lobsterman, and more. Gives job hunting ideas, places where a young person could write for more information about particular fields or scholarships. Illustrated with photographs. Has index and bibliography.

JOHN TABOR'S RIDE. Blair Lent. Atlantic Monthly Press. 1966. Lower Intermediate. 48 pages. Fiction.
A tall tale about a shipwrecked man named John Tabor who hitches a ride on a whale from the South Seas to his home in Nantucket. He has a traveling companion and together they have an encounter with Neptune. Detailed illustrations add interest to the story.

KERMIT THE HERMIT. Bill Peet. Houghton Mifflin Co. 1965. Primary and Lower Intermediate. 48 pages. Fiction.
A story, told in rhyme, about a shellfish crab who is a hermit. An act of kindness by a young boy and its affect on the crab convey the message of this book. The drawings that accompany the story add a lot of detail to the text. A good book to read aloud to children.

KON-TIKI. Thor Heyerdahl. Rand McNally. 1975. Grades 6 and up. 165 pages. Adventure.
This special edition of Thor Heyerdahl's book was created especially for young people. The author's theory that the Polynesian Islands had been settled by people from South America was tested when he and five companions sailed their balsa raft to Polynesia by drifting in the Humboldt Current. The account of their adventures is bound to engage the young reader from the first chapter to the last. Color illustrations and charts are excellent.

THE LACE SNAIL. Betsy Byars. The Viking Press. 1975. Grades K-3. 28 pages. Picture book. Fantasy.
Children's story of a snail which weaves white lace for a variety of aquatic animals it encounters.

LANDS ADRIFT: THE STORY OF CONTINENTAL DRIFT. Malcolm Weiss. Parents Magazine Press. 1975. Grades 4-6. 63 pages. Informational.
A readable and enjoyable discussion of how land has drifted and changed over millions of years. Also presents historical hypotheses of how this occurs.

THE LAST FREE BIRD. Harris A. Stone. Prentice-Hall, Inc. 1967. All grades. Fiction.
A plea to save our environment is made in this picture book for all ages. Beautiful watercolor illustrations.

LET'S EXPLORE A TIDE POOL. Bruce E. Tatje and Mark A. Weise. Science Dept., Martin County High School, Stuart, FL. 1971. Grades 2 and up. 39 pages. Informational.
A clear, concise guidebook for exploring a tide pool. The environment and the organisms found in it are described and often sketched. An asset to young marine biologists.

LET'S EXPLORE THE SHORE. Ilka List Maidoff. Ivan Obolensky, Inc. 1962. Upper Intermediate. 106 pages. Informational.
Each chapter is devoted to the biology of a common seashore animal, e.g., barnacles and starfish. Includes glossary.

LET'S FIND OUT ABOUT THE OCEAN. David C. Knight. Franklin Watts, Inc. 1970. Grades 1-3. 39 pages. Informational.
The names of the oceans, their size, location, and the life in them are discussed in this book. An explanation of tides, islands, and volcanoes is also given. Simplified black-and-white illustrations.

LET'S GO ON A TURTLE WATCH. Diana Hart and Larry Crary. Martin County High School, Stuart, FL. 1970. Grades 3 and up. Informational.
A well-presented field guide for young children interested in turtles and their habitats. Bibliography included.

LET'S GO TO THE BEACH. Nan Walker, Jacque Penick, Betty Mattern and Eileen Gunsolus. Hurricane House Publishers, Inc. 1969. Grades 3 and up. Informational.
A simple but highly-informative guide to Florida beach ecology. Designed for use while observing marine life. Simple black-and-white illustrations are intended to be colored accurately by observers.

LET'S GO TO THE SEASHORE. Harriet E. Huntington. Doubleday & Co. 1941. Grades K-4. 89 pages. Informational.
Pictures what a child might encounter during a walk along the seashore. Even-numbered pages bear photographs of marine animals. Odd-numbered pages contain reading material describing the animals in the photographs. This book is included in the American Library Association's list of 1,000 basic books for elementary school libraries.

LET'S LEARN ABOUT LIGHTHOUSES. Carla Greene. Illus. by John Flaherty, Jr. Harvey House, Inc. 1969. Grades 3-4. 45 pages. Informational.
A look at the history of a number of famous lighthouses, how lighthouses work, the life of a lighthouse tender, and tales of adventure relating to lighthouses and shipwrecks. Could be used as a reference.

LET'S LOOK AT SEASHELLS. Phyllis J. Perry. Illus. by Celeste K. Foster. T.S. Denison and Co., Inc. 1971. Grades 1-2. 32 pages. Informational.
Watercolor illustrations of various shells plus simple explanations of the animals that lived within.

LIFE IN A POND. Carmelita Kipple Robinson, Gordon E. Burks and Irving Leitner. Illus. by Marjorie Hartwell. Golden Press. 1967. Primary. 28 pages. Informational.
Presents the living things of a pond with labels and a few words of text. Only two pages on plants. The animals represented include common fishes, frogs and toads and their life cycles, snakes, turtles, salamanders, snails, crayfish, insects and birds.

LIFE IN A TIDE POOL. William M. Stephens. Illustrated by Arvis Stewart. McGraw-Hill. 1975. Grades 6-10. 56 pages. Informational.
Explores the struggle for life of the plants and animals in a tide pool. Excellent illustrations, artistically colorful. Index included.

LIFE IN PONDS. Jean Gorvett. Illus. by Paxton Chadwick. American Heritage Press. 1970. Grades 6 and up. 31 pages. Informational.
This field guide helps young scientists collect and identify flora and fauna of the pond. It contains expanded discussions of many commonly found specimens and directions for establishing a small aquarium and keeping records. The detailed drawings are excellent. No index or table of contents.

LIFE IN THE SEA. Editors of Creative. Creative Educational Society, Inc. 1971. Grades 4-6. 38 pages. Informational.
Each subject is covered in one page, with a beautiful color photo on the facing page. Subjects include the shore, the currents, salinity, and various life forms, e.g., sponges, crustaceans, and sea birds.

LIFE IN THE SEA. Gwynne Vevers. Illus. by Barry Driscoll. McGraw-Hill Book Co. 1965. Lower and Upper Intermediate. 42 pages. Informational.
An informative, handsomely-illustrated book about forms of sea life. The author attempts to impart understanding of what the sea is like and how it is explored.

THE LIFE OF FISHES. Maurice Benton. Golden Press, Western Pub. Co. 1972. Grades 5-7. 61 pages. Glossary. Informational.
An excellent introduction to various fishes. Discussions of evolution; life cycles, anatomy, food chains and pyramids. Reference supplements include facts and figures, glossary, map showing world distribution of various fishes, and directions for keeping goldfish.

THE LIFE OF RIVERS AND STREAMS. R. L. Usinger. McGraw-Hill, Inc. 1967. Grades 6-12. 232 pages. Informational.
The book uses the river basin setting to present principles of fresh-water and wetlands ecology. There is an especially good section on stream and river pollution. It was fortunate that Dr. Usinger was chosen to head the gifted staff that produced this book. There is an appendix, bibliography, and an index. **

THE LIFE OF SEA ISLANDS. M. J. Berrill and Michael Berrill. The World Book Encyclopedia/ McGraw-Hill Book Co. 1969. Middle School and up as a reference. 231 pages. Informational.
An authoritative text of life on various sea islands, with a particularly splendid chapter on the evolutionary aspects of the Galapagos Islands. Photography excellent. An interesting appendix includes sections on the sea islands in the National Park System, sea shell collecting, an excellent map of the major islands of the world, an expanded list of endangered species, glossary, bibliography, and index.

THE LIFE OF THE MARSH. William A. Niering. McGraw-Hill Book Co. 1966. Grades 6-12. 232 pages. Informational.
Maintains the high standards of the books in this series (Our Living World of Nature Series). One section describes the distribution of the eight types of wetlands in the United States. Another section describes the energy flow through wetland ecosystems. Contains about 200 illustrations, many in color. A glossary, appendices, a bibliography, and an index are included.

THE LIFE OF THE OCEAN. M. J. Berrill. McGraw-Hill Book Co. 1966. Grades 6-12. 232 pages. Informational.
Discusses the wide variety of plants and animals found in different parts of the ocean. Beautifully illustrated with many photographs, some of which are in color. The appendix includes a section on starting and maintaining a marine aquarium. A glossary, bibliography, and index are also included.

THE LIFE OF THE POND. William H. Amos. McGraw-Hill, Inc. 1967. Grades 6-12. 232 pages. Informational.
This book is a vivid portrayal of all kinds of ponds viewed in many different ways. One section describes the changes in ponds wrought by the passage of the seasons. The many color photographs complement the text. There is a glossary, bibliography, index, and a section on how to study ponds. **

THE LIFE OF THE SEASHORE. William H. Amos. McGraw-Hill Book Co. 1966. Grades 7-12. 231 pages. Informational.
Describes the diverse kinds of marine shore life to be found in and around sandy beaches, tidal flats, and rocky cliffs. Richly illustrated in vivid color, including many of the author's photomicrographs. The book like others in the series (Our Living World of Nature Series) describes life in terms of ecological patterns and relationships. There are five appendices, a glossary, a bibliography, and an index.

LIGHTHOUSES. Arthur Smith. Houghton-Mifflin Co. 1971. Grades 7 and up. 146 pages. Informational.
This book is not only a thorough account of the lighthouses of the U. S. but also a discussion of Britain's Eddystone Light and the beacons of the ancients. Exciting tales of the sea are woven into the accounts of these famous lighthouses, and good drawings illustrate the text.

LIGHTHOUSES OF AMERICA. Mina Lewiton. Illus. by Howard Simon. E. M. Hale & Co. 1967. Grades 8 and up. 156 pages. Bibliography. Informational.
This introduction to the topic includes the story of the ancient beacon of Pharos and the inscription by Sostratus hidden from Ptolemy by a thin slab of stone or cement. The discussion of American lighthouses includes the Boston Light, the first to be constructed in the colonies, and others on the Atlantic, Pacific, Great Lakes, Alaska, and Hawaii. Interesting incidents are included as well as details of construction. Wash paintings convey a feeling of the power of the sea.

LITTLE CALF, adapted from YEAR OF THE WHALE. Victor B. Scheffer. Illus. by Leonard Everett Fisher. Charles Scribner's Sons. 1970. Upper Intermediate. 140 pages. Fiction.
This is the fictionalized, but biologically accurate, story of a young sperm whale during his first year of life.

THE LITTLE ISLAND. Golden MacDonald. Illus. by Leonard Weisgard. Doubleday & Co. 1946. Grades K-4. 40 pages. Fiction.
The ecology of an island is taught using simple prose and full-page watercolors. An important lesson is that the island is part of the nearby land. This book won the 1947 Caldecott Medal for the most distinguished picture book for children.

THE LITTLE SPOTTED FISH. Jane Yolen. Illus. by Friso Henstra. The Seabury Press. 1974. Grades K-3. 28 pages. Picture book, fantasy.
A charming original tale inspired by elements from the folklore of the British Isles. Imaginative illustrations.

THE LIVING SEA. Richard Read. Illus. by Prudence Theobalds. Penguin Books, Inc. Middle School and up. 48 pages. Informational.
Very briefly introduces the organisms of the sea. Some are nicely illustrated in full color. They include plankton, seaweeds, molluska, crustaceans, fishes, and mammals. Very brief attention is given to vertical migration, food chains, food pyramids, geography, and evolution. There is a list of oceanographic expeditions, a list of suggested readings, and a one-page index. No. 11 of the Explorer Series. Paper cover.

LIZA LOU AND THE YELLER BELLY SWAMP. Mercer Mayer. Parents' Magazine Press. 1976. Grades K-3. 38 pages. Picture book.
This story tells of Liza Lou's cunning in outwitting the frightening monsters of the swamp. Magnificent illustrations.

LOBSTERMAN. Dahlov Ipcar. Alfred A. Knopf, Inc. 1962. Grades 4 and up. 38 pages. Fiction.
A boy helps prepare the boat and equipment and finally enjoys a lobster dinner.

THE LONG VOYAGE: THE LIFE-CYCLE OF A GREEN TURTLE. Alvin and Virginia Silverstein. Frederick Warne & Co. 1972. Middle School and others. 48 pages. Fiction.
The life cycle of the green sea turtle is traced by a team of scientists and a young boy on a long, hazardous journey across hundreds of miles of open ocean. An introduction to marine research and the balance of nature.

LOOK AT A GULL. Dare Wright. Random House. 1967. Grades 3-4. 42 pages. Informational.
Beautiful black-and-white photography and text that is almost poetic. Factual information about gulls, their life cycles and habits. Could be used as a reference.

LOOK AT THE SEA ANIMALS. June Behrens. Photos by Vince Streano. Childrens Press. 1975. Grades 1-2. 40 pages. Informational.
Colorful, page-size photographs of sea creatures, with accompanying text telling the most distinguishing characteristics in simplest terms. Starfish, lobsters, sponges, octopuses, and dolphins are among the creatures covered.

MAGIC OF THE SEA. Max Albert Wyss. The Viking Press. 1968. All ages. 86 pages. Informational.
Superb photographs of the sea and its inhabitants are combined with prose and poetry to make a moving essay about people and the sea. The influence of the oceans on human cultures is impressively developed in this handsome book.

MAN EXPLORES THE SEA. Malcolm E. Weiss. Illus. by Lloyd Birmingham. Julian Messner. 1969. Upper Middle School and others. 110 pages. Informational.
The story of the three sealab expeditions in which man lived for many days at the bottom of the sea and of other explorations of the ocean depths. Illustrated with black-and-white photographs. Glossary and index.

THE MANY-SPLENDORED FISHES OF THE ATLANTIC COAST INCLUDING THE FISHES OF THE GULF OF MEXICO, FLORIDA, BERMUDA, THE BAHAMAS AND THE CARIBBEAN. Gar Goodson. Illustrated by Phillip J. Weisgerber. Marquest Colorguide Books. 1976. Middle school and up. 200 pages. Informational.
This fishwatcher's guide gives identifying color illustrations, English, Spanish, and Latin names, and scientific information about 408 fishes commonly encountered by divers. Includes diving tips and a map of promising diving areas. Bibliography included.

A MAP IS A PICTURE. Barbara Rinkoff. Illus. by Robert Galster. Thomas Y. Crowell Co. 1965. Upper Elementary School and others. 35 pages. Informational.
Various kinds of maps and charts and their symbols are introduced.

MARINE ANIMAL COLLECTORS. John F. Waters. Hastings House Pub. 1969. Grades 6 and up. 119 pages. Glossary. Bibliography. Informational.
Here is an enthusiastic presentation of the methods and problems of collecting marine animal specimens for aquariums and research. The bibliography is interesting in that it separates materials according to the age of the reader.

MARSHES AND MARSH LIFE. Arnold Dobrin. Coward-McCann. 1969. Grades 4-8. 47 pages. Informational.
The author describes marsh life in terms of the effects that seasonal changes and tidal fluctuations have on the marsh's inhabitants. This well written book, illustrated with the author's brilliant watercolors, makes a strong case for marsh conservation.

MEET THE MEN WHO SAILED THE SEAS. John Dyment. Illus. by Victor Mays. Random House. 1966. Lower Middle School. 83 pages. Informational.
Historical treatment of sailing craft and sailors from log canoes and reed boats to clipper ships. It ends with a brief account of Slocum's solo voyage around the world in 1895. Famous mariners include Eric the Red, Marco Polo, Magellan, Cook, and Francis Drake. Nicely illustrated with monochrome drawings.

MEN UNDER THE SEA. Anabel Dean. Illustrated by Vincent Colabella. Harvey House, Inc. 1972. Grades 4-6. 44 pages. Informational.
Short chapters give an historical account of various modes of undersea exploration, e.g., diving bells, helmets, scuba equipment, submarines, bathysphere, bathyscape, and submersibles. Discusses possible use of continental shelf for habitation by an expanding population and descriptions of Sea Lab, Tektite, and Starfish.

THE MINNOW FAMILY. Laurence Pringle. Illus. by Dot and Sy Barlowe. Wm. Morrow & Co. 1974. Grades 3-8. 64 pages. Informational.
A factual discussion of minnows—their distinctive characteristics, how and where they live, their adaptations to the environment, and nest-building and mating. The black-and-white drawings enhance the text. A list of Latin and common names of various types of minnows is included.

MISS PICKERELL GOES UNDERSEA. Ellen MacGregor. Illus. by Paul Galdone. McGraw-Hill Book Co. 1953. Grades 4-6. 125 pages. Fiction.
What a fun way to learn about sonar, atomic-powered submarines, and under-the-sea salvaging. The always unpredictable Miss Pickerell must use these things in the recovery of her priceless Mars rocks that were being transported on a ship that sank.

MONSTERS OF THE DEEP. William Wise. Illus. by Ben F. Stahl. G. P. Putnam's Sons. 1975. Grades 3-4. 63 pages. Picture book, informational.
Some of the "most dangerous and mysterious monsters" of the deep are introduced to the young reader. Monsters described include different kinds of sharks, octopus, squid, whale, sawfish, moray eel, and stingray. The development of diving equipment is also discussed. The exceptional illustrations are the strength of this book. Each page of text, accompanied by a line drawing (often with a silhouette of a man to show relative size) faces a page showing the animal in a sometimes scary, but always beautiful, artist's interpretation of its environment. Glossary.

MONSTERS OF THE SEA. Barbara Lindsay. Illus. by William Bartlett. Scholastic Book Services. 1962. Primary grades. 48 pages.
Creatures such as sharks, stingrays, octopi, giant clams, and squids are illustrated by photographs and drawings with a page or two of text on each subject. Monsters of ancient seas and present seas and monsters yet to be discovered are discussed.

MOON JELLY SWIMS THROUGH THE SEA. Marie M. Jenkins. Illus. by Rene Martin. Holiday House. 1969. Grades K-4. 48 pages. Fiction.
This book provides a useful service to children's literature in that it supplies authentic information about the life cycles of jellyfishes without personifying them.

THE MOTHER WHALE. Edith Thacher Hurd. Illustrated by Clement Hurd. Little, Brown, and Co. 1973. Grades K-3. 32 pages. Informational picture book.
A narrative description of the mother whale as she gives birth to her calf, suckles and protects it, and then mates again. Also mentioned are winter migration and the contest of bull whales for control of the harem. Illustrations in blue, green and black woodcut are rough, yet quite attractive.

MY FRIEND FISH. Mamie Hagwood. Illustrated by Diana deGroat. Holt Rinehart and Winston. 1973. Grades 1-3. 28 pages.
The story of a boy who catches a fish at camp and makes it a special pet. Sorrow comes when the fish dies, but an understanding family helps the boy face the death bravely. Sensitive drawings lend a feeling of dignity to this story of a black boy and his family. All children who have lost a pet will be able to relate to this story.

MY GOLDFISH. Herbert H. Wong and Matthew Vessel. Illustrated by Arvis L. Stewart. Addison Wesley Publishing Co., Inc. 1969. Grades 1-2. 32 pages. Informational.
A child wins a goldfish at a school fair. His uncle explains how the fish swims, eats, and breathes. Lovely color illustrations portray this oriental family and their fish.

MY SEA. Hermann Fay. Hubbard Press. 1974. Grades K-1. Informational. 30 pages.
This excellent ABC book, with beautifully detailed illustrations, reinforces the alphabet for children interested in the sea, although some letters of the alphabet are not included and others are repeated.

THE MYSTERIOUS EEL. John F. Waters. Illus. by Peter Zallinger. Hastings House. 1973. Grades 6-9. Fiction/Informational.
A reference book for older children on the physiognomy, mating habits and habitats of different eels. Pencil drawing illustrations are well done.

MYSTERY AT SALVAGE ROCK. Elinar Olsen. Illus. by Lee LeBlanc. Oddo Pub. 1968. Grades 4-6. 47 pages. Fiction.
A fictional introduction to oceanography. A boy seeks explanations for phenomena he observes from a fisherman, a lobsterman, and a marine biologist.

THE MYSTERY OF THE RED TIDE. Frank Bonham. Illus. by Brinton Turkle. E.P. Dutton & Co. 1966. Upper Intermediate. 128 pages. Fiction.
Exciting tide-pool exploring on the Pacific Coast along with solving a mystery make for an exciting summer for Jill and her newly arrived cousin Tommy from Kentucky.

NETS OVERBOARD! Jack Coggins. Dodd, Mead & Co. 1965. Grades 6 and up. 96 pages. Informational.
An account of the methods used in the fishing industry. Oceanography and life in the sea are also discussed. Many supporting pictures with captions.

NEW DISCOVERIES IN OCEANOGRAPHY. Gardner Soule. G.P. Putnam's Sons. 1974. Grades 5-7. 126 pages. Informational.
This book describes a variety of undersea curiosities: the language of whales, efforts to domesticate sea lions and porpoises, farming the sea, evidence of continental drift and giant mountains under the sea. Simply written and interestingly illustrated with photographs. Index.

THE NEW WATER BOOK. Melvin Berger. Illus. by Leonard Kessler. Thomas Y. Crowell Co. 1973. Grades 6-10. 111 pages. Informational.
Here is the sort of inconspicuous book likely to languish on the shelf, and yet it is a complete, basic account of water, its properties, its importance for plants and animals, and the incidence and effect of pollution. The real value of the book lies in the ingenious, yet simple, experiments which might be done by the young reader. Useful as a resource for the elementary teacher. Bibliography.

NINE TRUE DOLPHIN STORIES. Margaret Davidson. Illus. by Roger Wilson. Scholastic Book Services. 1974. Grades 3-6. 64 pages. Informational.
Nine amazing stories about dolphins--most in natural habitats, some in man-made surroundings. Pleasant reading. The few illustrations are cartoon-like.

NORTH AMERICAN SEALIFE COLORING ALBUM. Mal White. Wildlife Series. Troubador Press, San Francisco. 1973. Paperback. Grades 1-6.
A sophisticated coloring book with excellent illustrations and text.

NORTH, SOUTH, EAST, AND WEST. Franklyn M. Branley. Illus. by Robert Galster. Thomas Y. Crowell Co. 1966. Grades 3 and up. Informational. 36 pages.
The useful skill of knowing how to determine directions is dealt with here. Shadows, compasses, and maps are used to help determine north, south, east, and west. Simple, clear illustrations.

THE OCEAN WORLD. Peter Ryan. Illustrated by Ludek Pesek. Penguin Books, Inc. 1973. Grades 6 and up. 48 pages. Informational.
The ocean itself and almost everything that affects it are covered by Ryan's short but informative book. A bit of history of the exploration of the undersea world is presented, including pictures of an early diving bell and undersea saucers. A good introduction to the ocean's wealth potential—oil, minerals, and hydroelectric power.

OCEANOGRAPHY. Marion B. Carr. Illus. by Sy Barlowe. Golden Press, Western Pub. Co. 1973. Grades 4-5. 48 pages. Informational.
An overview of many aspects of oceanography for the young reader. Basics, such as the rhythm of the tides, underwater topography, and patterns of major currents, are explained clearly and simply. Good illustrations. Reference book format.

OCEANOGRAPHY. Gilbert L. Voss. Illus. by Sy Barlowe. Western Publishing Co. 1972. Intermediate and up. 160 pages. Informational.
This is a serious introductory oceanography text book/reference book. Includes chapters on the sophisticated methods and equipment being used in ocean study. Includes index, charts, graphs, bibliography. The fairly large print and illustrations seem to be the only indication that the book is intended for young people with limited scientific background. Information-packed, challenging.

OCEANS. Sy Barlow. Follett. 1969. Grades K-3. 32 pages. Informational.
An overview of the physical, biological, and meteorological aspects of oceanography is attempted in this book. In fact, the book spreads itself too thin. There is a word list and an activity section, but these are inadequately developed. A Follett Beginning Science Book.**

OCTOPUS LIVES IN THE OCEAN. William and Peggy Stephens. Illus. by Anthony D'Attilio. Holiday House. 1968. Middle School. 47 pages. Fiction.
Does a good job of describing the life of an Atlantic octopus. The book is well illustrated mostly in black-and-white, and the common neighbors of the octopus are introduced in interesting accounts of day-to-day events.

ODDBALL FISHES AND OTHER STRANGE CREATURES OF THE DEEP. Bras Walker. Illus. by Shizu Matsuda and Gregory Thompson. Sterling Publishing Co. 1975. Grades 6 and up. 192 pages. Informational.
Fifty-five "strange creatures of the deep" are discussed. Among them are the piranha, the upside down eel, flying fishes, walking catfish, puffers, electric eels, and hammerhead sharks. The text is written in a pleasant informal style and illustrated with black-and-white line drawings. This is a book bursting with little-known facts and anecdotes.

OIL, THE BURIED TREASURE. Roma Gans. Illustrated by Guilio Maestro. Thomas Y. Crowell Co. 1975. Grades K-3. 33 pages. Informational picture book.
A scientifically correct, yet witty, treatment of the origins and uses of oil. Cartoon art work complements the text to create a delightfully readable book. A Let's-Read-and-Find-Out Science Book.

ONCE THERE WAS A GIANT SEA COW. Bernard L. and Esther S. Gordon. Illustrated by Pamela Baldwin Ford. Henry Z. Walck, Inc, a division of David McKay Co., Inc. 1977. Grades 2-4. 26 pages. Informational picture book.
This is the story of Captain Bering, German naturalist George Steller, and their shipwrecked crew's struggle for survival on Bering Island during an exploratory voyage in 1741. After returning home, Steller wrote a book about the giant sea cows inhabiting the island waters. Soon after publication of the book, hunters set out for Bering Island and began a slaughter which ended 27 years later in the eradication of the species. Exceptional black and white pictures.

ONE DOZEN SWIMMERS. Phyllis J. Perry. Illus. by June Talarczyk. T.S. Denison and Co. 1968. Grades 4-5. 43 pages. Informational.
The one dozen swimmers are mammals that spend all or some of their time in the water. The habits and identifying characteristics of whales, hippos, and platypuses are among those discussed.

102 QUESTIONS AND ANSWERS ABOUT THE SEA. Peter R. Limburg and James B. Sweeney. Illus. by William Jaber, Julian Messner. 1977. Grades 4-6. 128 pages. Informational.
The question-and-answer format is a convenient device to answer just about any question a child could think to ask about the sea, and many more besides. "What is an iceberg? Why is the beach sandy? What is the pressure in the deepest part of the ocean? Are there sea monsters? Do flying fish really fly? What's the difference between seals, sea lions, and walruses? What is SCUBA? Why do we dump our wastes into the sea?" Fairly short explanations of a variety of questions. Interesting presentation. Index.

OYSTERS. Fred N. Grayson. Julian Messner. 1976. Grades 3-6. 64 pages. Informational.
Explains biology of oysters; describes their ecological enemies (including chemical pollution); and describes oyster-related industries, including oyster farming and the pearl industries. Explains how a young person could obtain and raise oysters at home or at school. Index, good glossary. Illustrated with photographs. Could be used as reference.

PADDLE-TO-THE-SEA. Holling Clancy Holling. Houghton Mifflin Co. 1941. Grades 3-7. Fiction.
An excellent book for learning about the flow of water from the snow on a mountaintop to salt water in the ocean. A young Indian boy carves an Indian in a canoe that he places in the snow on a mountain near the Great Lakes. The book traces its voyage to the Atlantic Ocean. Wonderful illustrations.

PAGOO. Holling Clancy Holling. Illus. by the author and Lucille Webster Holling. Houghton Mifflin Co. 1957. Grades 3-9. 87 pages. Fiction.
This book tells the story of Pagoo, a hermit crab, from the larval stage to maturity. Life in the tidal pool is not easy: there is a chronic housing shortage and risks are incurred in the love-making adventure. This complete book has 20 full-page color drawings and numerous marginal illustrations. (The film, Story of a Book, available from Pied Piper Productions, follows the making of this book. See Audio-Visual Aids and Art.)

PEA PATCH ISLAND. Polly Curren and Ronald Himler. Illus. by Ronald Himler. Western Publishing Co. 1973. Beginning readers. 32 pages. Historical fiction.
Tells a legend of how Pea Patch Island in the Delaware River got its name. Very attractive color illustrations with a simple text. A pleasant story that could lead to other interesting assignments, at least for Delawareans.

THE PELICANS. George Laycock. The Natural History Press. 1970. Grades 4-7. 60 pages. Informational.
This well written book describes the habits and distribution of pelicans. Special attention is given to the diminution of their numbers in recent years. Several incidents involving the interactions of men and pelicans are described. There are many action photographs of pelicans.**

THE PENGUIN - ITS LIFE CYCLE. David H. Thompson. Sterling Publishing Co. 1974. Middle School. 64 pages. Informational.
A maximum of excellent color photographs and a minimum of challenging text makes engaging reading. Would make a good reference book. Index.

THE PENGUINS ARE COMING. R. L. Penney. Illus. by Tom Eaton. Harper & Row Publishers. 1969. Grades K-4. 63 pages. Informational.
R. L. Penney, a research zoologist at the Bronx Zoo, tells what he learned about Adelie penguins on five trips to Antarctica. The book contains detailed and accurate information for the beginning reader. The 35 drawings by artist Tom Easton are bold and imaginative.

PENGUINS, OF ALL PEOPLE. Don Freeman. The Viking Press. 1971. Grades 3-4. 30 pages. Fiction.
Color illustrations with a few words of text tell the story of ambassador penguins visiting the United Nations as delegates. Scenes of the Antarctic and New York City lead to the U.N. General Assembly where the penguins advise the human delegates to solve their problems as penguins do by "working, playing, and having fun together."

PENGUINS: THE BIRDS WITH FLIPPERS. Elizabeth S. Austin. Random House. 1968. Middle School. 84 pages. Informational.
Authoritative book about the lives of various species of penguins with good black-and-white photographs and a history of penguin naturalists. An index.

PETS FROM THE POND. Margaret Waring Buck. Abingdon Press. 1958. Grades 5 and up. (Reference for teachers of young children.) 72 pages. Informational.
This book is a boon to the classroom teacher who needs to know how to obtain and care for various flora and fauna of the pond or to the young naturalist who wants to do his own collecting. Includes not only extensive "how to" information, but also lengthy descriptions of types and distinguishing characteristics of specimens. Excellent sketches.

PETS IN A JAR: COLLECTING AND CARING FOR SMALL WILD ANIMALS. Seymour Simon. Illus. by Batty Fraser. The Viking Press. 1975. Grades 6-9. 95 pages. Informational.
Suggestions for collecting and keeping as pets such small animals as snails, toads, worms, ants, butterflies, and starfish. Fairly detailed. Bibliography.

PIONEERS ON EARLY WATERWAYS. Edith McCall. Illus. by Carol Rogers. Childrens Press. 1961. Middle School. 127 pages. Biography.
A collection of stories about early Americans on canals and rivers. Includes stories about Davy Crockett, Mike Fink, and Mark Twain. A steamboat race is the climax.

THE PIRATE HERO OF NEW ORLEANS. Carl Carmer. Illus. by Marilyn Hirsh. Harvey House. 1975. Grades 4-6. 46 pages. Picture book, historical poem.
A swashbuckling poem of Jean LaFitte's exploits in the Battle of New Orleans during the War of 1812.

A PLACE TO LIVE. Jeanne Bendick. Parents Press Magazine. 1970. Grades K-3. 64 pages. Informational.
Attempts to awaken young people to the interdependence of the life that surrounds them. Factual. Can be read in short segments. Simple, color illus. on each page.

THE PLAYFUL DOLPHINS. Linda McCarter Bridge. Illus. by Lowell George. National Geographic Society. 1976. Grades 1-3. 33 pages. Informational.
Glorious color photographs plus a simple text.

POLAR BEAR. Kay McDearmon. Dodd, Mead & Co. 1976. Grades 1-4. 46 pages. Fiction.
Describes the life cycle, life-style, and habitat of the polar bear. Illustrated with black-and-white photographs.

POLLUTION: THE WATERS OF THE EARTH. Clarie Jones, Steve J. Calder, and Paul H. Engstrom. Lerner Publications Co. 1971. Grades 6 and up. 95 pages. Informational.
An overview of the various types of pollution despoiling the waters of the world with specific emphasis on the problems of Lake Erie, the Cuyahoga River, the Mississippi, Florida's Gulf Coast, and the Columbia River. Finally, there is a plea to citizens to be aware of the problems and alert others to environmental dangers. Glossary.

THE POND. Donald and Carol Carrick. The Macmillan Co. 1970. Grades K-2. 33 pages. Informational.
Contains little science, but the watercolors by artist Donald Carrick are good. They portray pond life in the style of oriental silk screens. The text by Carol Carrick is poetic but too brief.

POND LIFE. Alexander L. Crosby. Illus. by Jean Zallinger. Garrard Pub. Co. 1964. Grades 2-5. 64 pages. Informational.
The birth of a pond and its inhabitants are features. Insects, frogs, herons, ducks, fish, kingfishers, muskrats, snakes, turtles, salamanders, and bats are discussed in some detail in separate chapters. Some black & white photos. Mostly blue and white drawings.

POND LIFE: A GUIDE TO COMMON PLANTS AND ANIMALS OF NORTH AMERICAN PONDS AND LAKES. George K. Reid. Illus. by Sally D. Kaicher and Tom Dolan. Golden Press. 1967. Middle School and others. 160 pages. Informational.
Mostly a very usable manual for identification of a wide variety of common plants and animals of fresh water ponds, including birds and mammals. There is a very brief treatment of the physical features of a pond and of aquatic ecosystems, and a bibliography and five-page index. Useful for amateur pond watchers of all ages.

THE QUEST OF CAPTAIN COOK. Millicent E. Selsam. Illus. by Lee J. Ames. Doubleday & Co. 1962. Grades 6 and up. 126 pages. Informational.
James Cook's efforts to explore uncharted oceans and lands come to life in this book. His travels took him around the world and resulted in the discovery of many new lands. Simple yet effective illustrations.

QUESTIONS ABOUT THE OCEANS. Harold Dubach and Robert Taber. U.S. Government Printing Office. Grades 3 and up. 121 pages. Informational.
Look up the question you want answered in the table of contents, turn to the page on which that question appears, and there you have it. One hundred questions are answered. Relevant diagrams and sketches are included. Simple, easy-to-use reference book.

QUESTIONS AND ANSWERS ABOUT SEASHORE LIFE. Ilka Katharina List. Illus. by Arabelle Wheatley. Four Winds Press. 1970. Upper Intermediate. 123 pages. Informational.
Uses a question-and-answer format to discuss the animals found near rocky, sandy, and muddy shores. Well illustrated and an excellent book.

THE RAINBOW BOOK OF NATURE. Donald Culross Peattie. Illus. by Rudolf Freund. Collins, William & World Publishing Co., Inc. 1957. Grades 3-6. 319 pages. Informational.
This lengthy resource book includes many different aspects of nature: ecosystems, plants and their unique characteristics, animals and their unique characteristics, the effects of temperature and surroundings on plants and animals, and the interactions between species. Factual text and life-like illustrations.

RED FOX AND HIS CANOE. Nathaniel Benchley. Illus. by Arnold Lobel. Scholastic Book Services. 1973. Grades K-2. 64 pages. Fiction.
A young Indian boy, Red Fox, wants the largest canoe in the world. Who would have guessed all the animals along the river would want to take a ride--all at the same time?

REMARKABLE CREATURES OF THE SEAS. Gardner Soule, G.P. Putnam's Sons. 1975. Grades 5-8. 96 pages. Informational.
Curious facts about strange sea creatures. More like an undersea "Believe-It-Or-Not" than a textbook on marine biology, since brief anecdotes about the largest fish ever caught and the tiniest vertebrate animal in the world seem to be strung out in no particular order, yet are interesting simply as curiosities. "The giant clam produces no pearls. The decorator crab appears to wear clothes. 16,352 snapping shrimp were living inside a wash-tub sponge found by Dr. A.S. Pearse." Includes index and a few photographs.

THE REMARKABLE DOLPHIN. Henry Chapin. Illus. by Richard D. Rice. Young Scott Books. 1962. Upper Intermediate. 92 pages. Informational.
An informational book about the lifestyle and life cycle of the dolphin. It gives specific information about the Tursions truncatus, the dolphin that is familiar along the Atlantic Coast. The author explains the Tursions' behavior, intelligence, and physiology. Illustrated with black-and-white drawings.

THE RISE AND FALL OF THE SEAS: THE STORY OF TIDES. Ruth Brindze. Illus. by Felix Cooper. Harcourt, Brace & World, Inc. 1964. Upper Intermediate-Middle School. 91 pages. Informational.
Good introduction to causes and effects, and dangers and uses of tides. Illustrated with black-and-white photographs and diagrams.

RIVERS. Delia Goetz. Illus. by John Kaufmann. Wm. Morrow & Co. 1969. Upper Intermediate. 63 pages. Informational.
An exploratory book about the rivers of the world. What has been learned about them through history is discussed as well as how they are formed. Some famous rivers are also mentioned and the need for river conservation and water pollution controls is pointed out. Black-and-white drawings illustrate this book.

THE ROCKY SHORE. John M. Kingsbury. Illus. by Edward and Marcia Norman. The Chatham Press, Inc. 1970. Grades 6 and up. 77 pages. Informational.
The physical characteristics and land and sea flora and fauna of the New England Coast are described in great detail. The original state, subsequent development, and present state of the coastline are also depicted by excellent black-and-white sketches. An index of plant, animal, and rock types is included. May also serve as a practical field guide.

ROMANCE OF CASCO BAY. Edward Rowe Snow. Dodd, Mead & Co. 1975. Elementary. 288 pages. Illustrations included.
This is a lively volume of stories concerning Maine's buried treasure, ship wrecks, sea battles, lighthouses and pirates.

THE ROPE'S END. Reginald B. Hegarty. Illus. by Wallace Tripp. Houghton Mifflin Co. 1965. Grades 5 and up. 131 pages. Fiction.
At the age of 12, Hegarty made his first whaling voyage as a part of the crew on his father's ship. Life on a sailing vessel is not easy for such a mischievous boy. Amusingly, his actions frequently result in a meeting of the seat of his pants with a "rope's end." Exciting, charming, convincing.

SALTMARSHES AND SHIFTING DUNES. John F. Waters. Illustrated by Haris Pelie. Harvey House, Inc. 1970. Middle School. Informational.
A descriptive narrative of saltmarshes, sand dunes, and tide pools. An appendix gives directions for maintaining a saltwater aquarium. Index.

SAND. Sally Cartwright. Illus. by Don Madden. Coward McCann and Geohegan, Inc. 1975. Grades K-3. 31 pages. Picture book, informational.
Various attributes of sand are presented for scientific inquiry, and followed by an expanded discussion of practical uses and interesting projects. Cartoon illustrations are witty.

SAND ART. Ellen Appel. Crown Publishers, Inc. 1976. Grades 6 and up. 116 pages. Informational.
Instructions and photos explain how sand art can be used in creating terrariums, planters, paintings, and sculpture. Examples of American Indian sand paintings are especially fine. Includes a list of supply sources.

SANDCASTING. Margot Batho. Illus. by George Overlie. Lerner Publications, Inc. 1973. Grades 4-5. 32 pages. Informational.
Sandcasting is easy when one follows the instructions in this book. Directions are given for casting with plaster of Paris and wax. The illustrations are simple line drawings that are clear and easy to follow.

SANDIKINS. Nina Leen. Holt Rinehart and Winston. 1973. Elementary. 28 pages. Fantasy.
By adding little heads to skates' egg cases found along the beach, the author-photographer creates a magical, whimsical society of creatures she calls "Sandikins". While there is not much information, this is a charming picture book that will delight first graders and everyone else.

SANDPIPERS. Edith Thacher Hurd. Illus. by Lucienne Block. Thomas Y. Crowell Co. 1961. Grades K-2. Informational.
Simple but descriptive words make this "Let's Read and Find Out Science Book" a pleasure. The child will surely come away with a clearer understanding of the sandpiper.

THE SCIENCE-HOBBY BOOK OF BOATING. Maxwell R. Garret. Lerner Publications. 1974. Grades 5-8. 55 pages. Glossary. Instructional.
Basic instructions for canoeing, rowing, sailing and power boating are given in this clearly-written and profusely-illustrated book. An emphasis on safety and technique makes this a particularly valuable volume for the beginner. The section on navigational aids, dealing with the reading of buoys, running lights, signaling and nautical "rules of the road" is particularly interesting.

SCIENCE ON THE SHORE AND BANKS. Elizabeth K. Cooper. Harcourt, Brace & World, Inc. 1960. Grades 6-10. 187 pages. Informational.
Useful guide for observing, gathering, and studying various forms of plant and animal wildlife in shallow fresh and salt waters.

SCIENCE SHIP: A VOYAGE ABOARD THE DISCOVERER. Peter Briggs. Simon & Schuster. 1969. Grades 6 and up. 128 pages. Informational.
The author fills us in on what he learned day by day aboard The Discoverer, a highly complex and sophisticated vessel designed to explore the sea in great detail. Photographs with captions are helpful.

SEA AND EARTH: THE LIFE OF RACHEL CARSON. Philip Sterling. Thomas Y. Crowell Co. 1970. Intermediate-High School. 213 pages. Biography.
Part of the "Woman of America Series," designed to introduce women of achievement to male and female readers. It covers the entire life and works of the woman who could express her love for the sea with the knowledge of a qualified scientist and the awe and gift for words of a poet. Illustrated with family photographs. Contains list of sources, suggested readings, and an index. Very interesting.

THE SEA BOOK. Doug Morse. Illus. by Joel Snyder. 1974. Grades K-3. 32 pages (foldout). Informational.
This unfolding panorama presenting the topography and creatures of the sea with rhymed text has dramatic impact. On the reverse side related crafts, music, science projects, and games are suggested.

SEA CAREERS. D. X. Fenten. J. B. Lippincott Co. 1970. Grades 4 and up. 162 pages. Informational.
An extensive listing of jobs related to the sea. Descriptions, qualifications, schooling, suggested salaries (now outdated), addresses of some sources for information and applications, and an index are included.

SEA CHANGE. Dorothy Pitkin. Pantheon. 1964. Intermediate. 250 pages. Fiction.
A teenage girl matures and discovers romance during a summer spent working at a marine biological station. In the course of the narrative, a great deal of information about the sea creatures is presented, including information about crabs, dogfish, anemones, and all of the creatures in the heroine's special tide pool. The lure of science, and general marine biology in particular, is well portrayed by the scientist characters.

THE SEA EGG. Lucy M. Boston. Illus. by Peter Boston. Harcourt, Brace & World. 1967. Upper Intermediate. 94 pages. Fiction.
A story about two young brothers and their magical summer at the beach. After purchasing an unusual egg-shaped rock, they hide it in a pool of sea water and wait for it to hatch. The boys' adventures with what hatches weave this sea tale.

THE SEA FOR SAM. W. Maxwell Reed and Wilfrid S. Bronson. Harcourt, Brace and World, Inc. 1960. Intermediate. 243 pages. Informational.
These authors are fine storytellers. With anecdotes, analogies, and examples they make the whole story of the sea interesting to young readers. The book covers theories of the origin of the seas, early world explorations, mapping the ocean floor, undersea exploration, icebergs, gravity and tides, currents, composition of sea water, sea ecology, and biology of the major families of sea creatures from diatoms to whales. Contains index. Illustrated with photographs. Highly recommended. Useful as text or reference, or for enjoyment.

SEA FROG, CITY FROG. Dorothy D. VanWoerkom. Illus. by Jose Aruego and Ariane Dewey. Macmillan Publishing Co., Inc. 1975. Grades 1-2. 44 pages. Picture book. Fiction.
This ready-to-read-book is an adaptation of a Japanese folk tale. The frogs, after striving toward their destinations, mistake the old for the new and never attain their objectives. Witty and whimsical illustrations.

SEA MONSTERS. Walter Buehr. Pocket Books. 1966. Grades 7-8. 106 pages. Informational. Historical survey.
Various sightings of giant sea monsters, reported by responsible persons, suggest that somewhere in the depths of the oceans, there may, indeed, be the descendents of prehistoric creatures. This is the sort of book to catch the fancy and imagination of middle school children and perhaps serve as the stimulus for tall tales of the sort told about the campfire on a dark and spooky night.

SEA OTTERS AND SEAWEED. Patricia Lauber. Garrard Pub. Co. 1976. Grades 1-6. 64 pages. Informational.
Divided into 5 parts: "A Home in the Sea," "The Otter Watchers," "Otters, North & South", "The Otters and the Kelp," "Today and Tomorrow." In each chapter a different area of the otter's life is discussed. Although too long in its entirety for the young reader, one chapter would hold sufficient information to be of interest. Good information about sea mammals and seaweed as a food source. 24 color and black-and-white photos.

THE SEA SEARCHERS: MEN AND MACHINES AT THE BOTTOM OF THE SEA. Terry Shannon and Charles Payzant. Golden Gate Junior Books. 1968. Grades 3 and up. 93 pages. Informational.
A well organized book about the various machines used in exploring and working under the sea. Excellent photographs support the text. Very informative captions make the book easy to pick up and enjoy.

SEA STAR. Robert M. McClung. William Morrow & Co. 1975. Grades 2-3. 48 pages. Informational.
The author describes the starfish's life cycle by recounting Sea Star's experiences through a one-year span. Drawings include fine illustrations of locomotion and regeneration.

SEA STARS AND THEIR KIN. Herbert S. Zim and Lucretia Krantz. Grades 4-5. 63 pages. Informational.
A first-rate science writing team introduces echinoderms to the young reader. The narrative includes discussions of the life cycle, habitat, locomotion, reproduction and regeneration of various types. Diagrams illustrate the anatomy of several echinoderms.

SEA TURTLES. Francine Jacobs. Illus. by Jean Zallinger. William Morrow and Co. 1972. Grades 3-5. 64 pages. Informational.
Habits and characteristics of sea turtles. Perils of nesting turtles are discussed. Hunters and conservationists are shown at odds over the turtles' fate.

SEABIRD. Holling Clancy Holling. Houghton Mifflin Co. 1948. Upper Intermediate. 60 pages. Fiction.
The story of an ivory gull carved by a man on a whaling boat. The adventures of the gull, Seabird, as it passes through four generations of its creator, form the story. Scenes of the development of crafts of the sea, and finally air transportation, take the reader on a journey through America's past. Full-page color illustrations and pencil drawings along margin enhance the story.

SEAHORSE. Robert A. Morris. Illustrated by Arnold Lobel. Harper and Row. 1972. Grades 1-3. 60 pages. Fiction/Informational.
A story of the life cycle of a seahorse who lives in the Atlantic Ocean. A Science I Can Read Book for beginning readers with enough action to hold interest.

SEAHORSES. Lilo Hess. Charles Scribner's Sons. 1966. Lower Intermediate. 46 pages. Informational.
This book is about the life cycle of the seahorse. The physiology of the animal is discussed as well as that of others of its family. Directions are given for making an aquarium for seahorses. Black-and-white photographs are used throughout the book.

SEAL HARBOR. John F. Waters. Illustrated by Robert Quackenbush. Frederick Warne and Co., Inc. New York. 1973. Grades 4-8. 47 pages. Fiction.
This charming story follows a seal pup from birth to maturity, telling of its day-to-day life and of the time it was wounded and nursed back to health by a young boy. Information about the life cycle of seals is presented in an easy to understand fashion, with color and black and white illustrations.

SEALS. K. M. Blackhouse. Golden Press. 1969. Grades 6 and up. 96 pages. Informational.
Photographs, both color and black-and-white, of seals in their natural habitats help make this an impressive reference. The author initially describes many types of seals and later concentrates on the grey seal and its lifestyle.

THE SEA'S HARVEST. Joseph E. Brown. Dodd, Mead and Co. 1973. Grades 6-9. 96 pages. Informational.
Farming the sea is likely to be the answer to the world's growing food needs. The author discusses various attempts at aquiculture from earliest times to the present. Many black and white photographs.

SEASHELLS. Sam and Beryl Epstein. Illustrated by William M. Hutchinson. Garrard Publishing Co. 1963. Grades 2-3. Informational.
Easy-to-read narrative explains the hows and whys of shell collecting and explores some common types of shells. A Junior Science Book.

SEASHELLS IN ACTION. Audrey Newell. Walker Publishing Co. 1973. Grades K-4. 38 pages. Informational.
Describes twenty-five animals with shells including oysters, clams, scallops, conchs, and whelks. Includes paragraphs about the squid and the octopus. Illustrated with watercolors. A shell identification chart for teacher reference is included in the back.

SEASHELLS OF NORTH AMERICA. R. Tucker Abbott. Illus. by George Sandstrom. Golden Press. 1968. Grades K and up (suitable for older students). 280 pages.
The text of the 50-page introduction gives much information on molluska, from biological specifics and environmental background to classification chart and glossary. The remaining portion of this book is a clearly-illustrated, well-defined field guide.

SEASHELLS OF THE WORLD. R. Tucker Abbott. Illus. by George and Marita Sandstrom. Golden Press. 1962. Upper intermediate and up. 162 pages. Informational.
This outstanding pocket handbook, comprehensive and well illustrated, uses both common and scientific names.

SEASHORE LIFE COLORING BOOK. Anthony D'Attilio. Dover Publications. 1973. Elementary. 46 pages. Informational.
Good black-and-white illustrations of various ocean life-forms, identified by name. Miniature versions of the same scenes appear in their actual colors on the book cover so that children may color them accurately if they so desire.

SEASHORE STORY. Taro Yashima. The Viking Press. 1967. Primary. 18 pages. Fiction.
A legendary story about a Japanese fisherman who rides away on a turtle's back and lives for many, many years. This tale is being told to a group of ballet students who are camping at the seashore. Their questions about the tale are told to the reader also. Pastel drawings illustrate this book.

SEASHORES: A GUIDE TO ANIMALS AND PLANTS ALONG THE BEACHES. Herbert S. Zim and Lester Ingle. Illus. by Dorothea and Sy Barlowe. Golden Press. 1955. Grades 5-12. 160 pages. Informational.
About 460 forms of seashore life are described and illustrated in this book. It is attractive and authoritative. Its convenient hip-pocket size makes it a useful companion for anyone who frequents the beaches. There is an index with a list of scientific names of the plants and animals discussed.

THE SECRET THREE. Mildred Myrick. Illus. by Arnold Lobel. Harper & Row Publishers. 1963. Primary. 64 pages. Fiction.
A story about three boys at the beach who form a club with secret signals, coded messages, passwords, and a meeting place. They have a campout on a beach island and explore dunes, shells, grasses, etc.

SEDNA. Beverly Brodsky McDermott. The Viking Press. 1975. Grades 1-3. 28 pages. Picture book. Folktale, adapted from an Eskimo myth.
The Inuit tribe ask Sedna, the powerful mother of all sea beasts, to provide food for the starving Eskimo people. The author's illustrations in lavender and dark blue suggest Eskimo style, evoking a feeling of mystery appropriate to the text. The desertion of Sedna by her father might prove frightening to some children.

SEE ALONG THE SHORE. Millicent Selsam. Illus. by Leonard Weisgard. Harper & Row Publishers. 1961. Lower Intermediate. Informational. 50 pages.
Discusses some of the things children might wonder about as they walk along the beach: why the sea is salty, the formation of sand and dunes, sea shells and animals on the beach, tides and what causes them, and animal tracks in the sand. Also discusses the intertidal zone and insects found near the shore. Colorful illustrations show what is being described.

SEE THROUGH THE LAKE. Millicent Selsam. Harper & Brothers. 1958. Lower Intermediate. 48 pages. Informational.
An explanation of lakes-how they were formed, what types of life they support, and the effect on the lakes of the land around them. A description of specific types of life found at different levels of water is included. Well illustrated.

SEE THROUGH THE SEA. Millicent Selsam and Betty Morrow. Illus. by Winifred Lubell. Harper and Row Publishers. 1955. Lower Intermediate. 44 pages. Informational.
A story about a journey into the depths of the sea and what things a person might see there. Animal and plant life at different depths are explored. The author uses a round insert diagram on every page to help show exactly what part of the sea is being explained.

SHARKS. Roda Blumberg. Franklin Watts, Inc. 1976. Grades 4-6. 78 pages. Informational.
Meet the shark; learn how it hears, sees, mates; learn what it eats. Learn about the kinds of sharks and their relatives, the rays. Scary photographs, exciting text. Bibliography, index, and glossary.

SHELLS ARE WHERE YOU FIND THEM. Elizabeth Clemons. Illus. by Joe Gault. Alfred A. Knopf. 1960. Grades 3-6. 88 pages. Informational.
Handbook for the young shell collector. Tells how to mount and classify a collection, identifies many types of shells with their common and scientific names, tells where the shells can be found, and a little bit about the animal that inhabits that shell. Black-and-white illustrations given of each shell mentioned. Reference.

SHELLS FROM THE SEA. Robbie Trent. Word Books. 1975. Grades K-2. 26 pages. Informational. Religious.
A young boy and his mother spend a day at the beach collecting shells. Totally religious approach to creation and the variety of shelled creatures. Each page of text is followed by an adaptation from the Old Testament.

SHELLS: HOMES IN THE SEA. Paul Villiard. Illus. by Murray Tinkelman. Addison-Wesley. 1972. Grades 5-7. 48 pages. Informational.
A well-written, nicely-designed book which considers various mollusks - those which live in the open ocean, buried in sand, in deep and shallow water or in seaweed and rocks. The beautiful pen-and-ink drawings of specimens are unusually fine.

THE SHIP AND THE SEA IN ART. Margaret Gracza. Designed by Robert Clark Nelson. Lerner Publications Co. 1969. Grades 5-6. 64 pages. Art book.
An art book which covers ships and the sea through the ages, from Egyptian bas-relief of boats on the Nile to Jacques Lipschitz' cubist Sailor with Guitar. A painting of a clipper ship is accompanied by a one-page history of clippers. A painting of Mutiny on the Bounty similarly describes the historical situation as well as the aesthetics of the art work. Art appreciation is combined with an introduction to nautical terminology and history.

SHIPS AND HOW TO DRAW THEM. W.J. Aylward. Pitman Publishing Corp. 1957. Grades 6 and up. 44 pages. Informational.
Mostly a guide to drawing sailing ships, but also contains descriptions and diagrams of various aspects of ships. The sketches are accompanied by some discussion of types of ships and variation in functional design.

SHIPS AT WORK. Mary Elting. Illus. by Manning Vev Lee. Harvey House. 1953. Grades 4-6. 92 pages. Informational.
A story of ships is recounted through the actions of a sailor on a freighter carrying cargo across the Atlantic. The reader is introduced to such nautical information as telling time by the bells, shipboard terminology and jobs of various workers on board.

SHRIMPS. Judy Hawes. Illus. by Joseph Low. Thomas Y. Crowell Co. 1966. Primary. 35 pages. Informational.
The life cycle of shrimps. The author tells about their habits and how they grow. The reader also finds out about shrimps' long ocean voyages and what part these voyages play in their life cycle. A watercolor effect is used to illustrate this book.

SMALL HABITATS. Lilo Hess. Charles Scribner's Sons. 1976. Grades 7 and up. 47 pages. Informational.
Terrariums can be even more interesting when small animals are introduced. Directions for making terrariums include special instruction for deserts, tropical-coastline, jungle, and meadow or woodland habitats. A chart of habitats summarizes the information well. Black-and-white photographs are very good.

SOME MAMMALS LIVE IN THE SEA. John F. Waters. Dodd, Mead & Co. 1972. Grades 6 and up. 96 pages. Informational.
Anecdotes and facts make this book about sea mammals interesting reading. Of particular interest is the final chapter, which describes various scientific studies. Illustrated with photographs. Bibliography.

SONG OF THE BOAT. Lorenz Graham. Illus. by Leo and Diane Dillon. Thomas Y. Crowell Co. 1975. Grades 2-3. 34 pages. Picture book, fiction.
The story of the search by an African boy and his father for a tree to use for making a new canoe. The story is told in English as spoken by rural West Africans. An interesting syntactic pattern gives the text a certain vigor and rich tone but might prove difficult in some classrooms. The artwork is executed in the style of African woodcuts and is dramatic with decorative detail.

SPRING COMES TO THE OCEAN. Jean Craighead George. Illus. by John Wilson. Thomas Y. Crowell Co. 1965. Upper Middle School and other. 110 pages. Fiction.
The book consists of a series of well-written accounts of various marine animals as spring approaches. Included are the hermit crab, turtle, man-of-war, octopus, porpoise, oyster, starfish, fishes, and some of the lower invertebrates. It ends with a chapter on the gray whale. Good reading. Sparsely illustrated with black-and-white drawings.

STANDARD CATALOGUE OF SHELLS. Robert J. L. Wagner and R. Tucker Abbott. Van Nostrand. 1967. Grades 6-12. 303 pages. Informational.
This book appeals more to the shell-collecting hobbyist than to the biologically oriented conchologist. The book is well illustrated, but it is incomplete. One is left with the hope that future editions of this book will include a greater breadth of coverage. **

STARFISH. Edith Thachar Hurd. Illus. by Lucienne Bloch. Thomas Y. Crowell Co. 1965. 35 pages. Informational.
A delightful introduction to the starfish. Its lifestyle and beauty are described with carefully chosen words. Fascinating illustrations give the reader a feeling of being at the sea.

STEVEN AND THE GREEN TURTLE. William J. Cromie. Illus. by Tom Easton. Harper & Row. 1970. Grades 1-2. 64 pages. Fiction.
Children learn about the life of the green turtle from this "I Can Read" Book, in which a boy makes a pet of a green turtle, and then learns about them. Cartoon-type illustrations.

THE STORY OF OLD IRONSIDES. Norman Richards. Illus. by Tom Dunnington. Childrens Press. 1967. Grades 3-6. 30 pages. History.
This is an account of the construction of the U.S.S. Constitution, its confrontation with the Barbary Rulers, the battle with the Guerriere, and later, its renovation and commission as the Flagship of the Admiral of the First Naval District. Three verses of the poem "Old Ironsides" by Oliver Wendell Holmes are included.

THE STORY OF THE MAYFLOWER COMPACT. Norman Richards. Illus. by Darrel Wiskur. Childrens Press. 1967. Grades 4-5. 30 pages. Historical fiction.
The story of the Separatists, their settlement in Holland and voyage to America as pilgrims. A drawing showing a longitudinal cross-section of the Mayflower, accompanied by the descriptive text on the facing page, might be useful in the classroom.

STRANGE ADVENTURES OF THE GREAT LAKES. Dwight Boyer. Dodd, Mead & Co. 1974. Elementary. Illustrated.
Another wonderful book concerning the long forgotten adventures and tragedies of fresh-water ships and sailors. Contains many rare and authentic tales of sacrifice and superb bravery.

STRANGE FISHES OF THE SEA. Olive L. Earle. Wm. Morrow & Co. 1968. Lower Intermediate. 63 pages. Informational.
An informational book about some creatures who live in the sea and who are thought to have strange shapes and habits. Compares sea and land animals, such as sea snakes and land snakes. Black-and-white pencil drawings illustrate this book.

THE SUNLIT SEA. Augusta Goldin. Illus. by Paul Galdone. Thomas Y. Crowell Co. Lower Intermediate. 33 pages. Informational.
An introductory book about the ecosystem of the undersea world as far down as sunlight penetrates, about 200 feet. Plant and animal life found at this level are described. Drawings done in three colors illustrate this book.

SURF'S UP! Arthur H. Klein and M. C. Klein. The Bobbs-Merrill Co. 1966. Upper Middle School and others. 224 pages.
A collection of 79 photographs and stories, cartoons, poems, and anecdotes about surfing. Great reading for devotees of the sport.

SWAN OF THE EAST. Edwin P. Hoyt. The Macmillan Co. 1968. Upper Middle School and others. 200 pages. Informational.
An account of the crew of the German cruiser, the Emden in World War I (1914) as they harrassed enemy shipping in the Pacific Ocean. After the Emden was sunk, they made their way to Constantinople and their allies. One of the great epics of naval warfare. Good reading.

SWIMMY. Leo Lionni. Pantheon Books. 1968. Primary. 28 pages. Fiction.
A picture book about a little fish who is left all alone after his family is eaten by a tuna. His adventures and his struggles to cope with the big fish after he meets a new "family" are the center of this story. Watercolors, used to produce a shimmering underwater effect, are used to illustrate this book.

THE TALE OF A POND. Henry B. Kane. Alfred A. Knopf. 1960. Grades 6 and up. 113 pages. Informational.
This descriptive narrative of pond life as seen through the eyes of a boy traces the changes in the environment through the seasons. Detailed chapters on the dragonfly, carnivorous plants, reptiles, and bullfrogs are especially thorough and beautifully illustrated with black and white photography.

TALES OF A SEADOG FAMILY. Joe Lasker. Penguin Books. 1977. Grades K-3. 28 pages. Picture book. Fiction.
Maritime history, true and fictional, from the Vikings to the present is amusingly retold as a history of dogs at sea. Historical allusions outside the reference of younger children. Charming pictures.

TARO AND THE SEA TURTLES. Arnold Dobrin. Coward, McCann & Geoghegan. 1966. Lower Intermediate. 48 pages. Fiction.
A Japanese tale about a young boy who dreams of buying gold to gild the Buddha in the village. The realization of his dreams and his adventure to the island to purchase the gold are the focus of the story. Taro's kindness to the sea turtles is reciprocated in an exciting way. Illustrated with black-and-white drawings.

THAT REMARKABLE CREATURE, THE SNAIL. Oscar Schisgall. Photography by Alvin E. Staffan. Julian Messner. 1970. Grades 5-6. 58 pages. Informational.
Fascinating facts about all kinds of snails, both land and sea. Includes a chapter on how to collect and study snails that would make an interesting class or individual science project.

THERE'S A SOUND IN THE SEA...A CHILD'S-EYE VIEW OF THE WHALE. collected by Tamar Griggs. The Scrimshaw Press. 1975. All ages. Poetry and Art.
A breathtakingly beautiful collection of children's art and poetry about whales, submitted in response to a request from Friends of Whales conservation group. A full-color, high-quality edition worthy of the remarkably talented artists.

THIS IS A RIVER: EXPLORING AN ECOSYSTEM. Laurence Pringle. Macmillan Pub. Co., Inc. 1972. Grades 6-7. 55 pages. Informational.
Presents the river as a flowing-water ecosystem. Of note are drawings of stream animals found under a stone, a diagram showing a food web, and another drawing illustrating types of life present in the water in relation to the amount and location of industrial pollution. Glossary and bibliography.

THOR, LAST OF THE SPERM WHALES. Robert M. McClung. Illus. by Bob Hines. Wm. Morrow & Co. 1971. Grades 4-6. 64 pages. Fiction.
Learning about sperm whales is easy when the reader follows Thor, the whale with a special white half-moon mark just below his hump, from his birth until he is a forty-year-old bull. A fascinating drawing of Thor's birth is included among the excellent illustrations.

THREE BOYS AND A LIGHTHOUSE. Nan Hayden Agle and Ellen Wilson. Illus. by Marian Honigman. Charles Scribner's Sons. 1951. Lower Middle School. 100 pages. Fiction.
A good story with a few black-and-white illustrations about the adventures of three boys who spend a summer helping to tend a lighthouse.

THREE DROPS OF WATER. Sigmund Kalina. Illus. by Charles Robinson. Lothrop, Lee & Shepard. 1971. Grades 3-4. 64 pages. Picture book, informational.
A good introduction to the ecology of rivers, as the reader follows three drops of water melting from high in the mountains and beginning a journey which takes them racing down mountainsides to streams and brooks, along river banks, through forests, past lands polluted by farm and industrial wastes, to the tidal marsh and the sea. Many of the illustrations are suggestive of Japanese landscape paintings.

THE TIDE. Sally Cartwright. Illus. by Marilyn Miller. Coward-McCann. 1970. Grades K-3. 46 pages. Informational.
Discusses the phenomena of tides and illustrates them with diagrams. The explanations cover the cause of tides, spring tides and neap tides.

TIM TO THE RESCUE. Edward Ardizzone. Henry Z. Walck, Inc. 1949. Lower Intermediate. 46 pages. Fiction.
A story about three boys who are part of the crew of a ship. Tim and Ginger develop a friendship and begin many adventures on the ship. Ginger's problems with his hair and a hurricane are the major incidents. Watercolor drawings illustrate this book.

TIMOTHY TURTLE. Al Graham. Illus. by Tony Palazzo. Viking Press. 1946. Grades 2-4. 28 pages. Picture book. Poetry.
The story of Timothy Turtle, who explores the territory beyond his pond. Children's story told in poetry, which is light yet challenging. Illustrations have the same light-hearted appeal.

TO THE BRINK OF EXTINCTION. Edward R. Ricciuti. Harper & Row Publishers. 1974. Grades 6 and up. 169 pages. Informational.
The stories of seven animals threatened with extinction are told: the Puerto Rican Parrot, the shaggy European Bison, Pere David's Deer, the Pine Barrens Tree Frog, the Bog Turtle, the Osprey, and the Gray Whale. The complexities and morality of saving living things from extinction are discussed. There is an index and very short bibliography. The illustrations are poor.

THE TOTAL TURTLE. Martha Emilie Reeves. Illus. by Peter Zallinger. Thomas Y. Crowell. 1975. Grades 6 and up. 115 pages. Informational.
The evolution, types, exploitation, survival, and place in art and legend of the turtle are discussed. There is a particularly thorough guide for keeping turtles in captivity. Appendices include a list of turtle societies, legal restrictions on hunting and collecting turtles, a poisonous plants list, and a food value chart. Bibliography. Black-and-white illustrations.

TRACKS BETWEEN THE TIDES. Elizabeth Shepherd. Illus. by Araballa Wheatley. Lothrop, Lee & Shepard. 1972. Upper Intermediate. 95 pages. Informational.
Discusses how to locate, dig up, and observe burrowing animals of the intertidal zone. Diagrams illustrate the variety of life forms that can be found.

THE TRAVELS OF MAGNUS POLE. Jonathan Wills. Houghton-Mifflin Co. 1975. Grades 1-3. 46 pages. Picture book, historical fiction.
This playful take-off on the travels of Marco Polo traces 'Magnus' journey from the Isle of Yell in Shetland across seas and deserts and eventually back home. He returns triumphantly with the technical skill to build waterwheels for grinding grain. The illustrations glow with color and bold imagery.

A TRIP TO THE AQUARIUM. Carla Greene. Illus. by Gloria Stevens. Lantern Press. 1967. Grades 2-3. 46 pages. Informational.
Story of a family visit to the aquarium. Children's expert uncle offers explanations of lives of sea creatures.

TROPICAL FISH. Bruce W. Halstead and Bonnie L. Landa. Illus. by George Sandstrom. Golden Press. 1975. Middle School and others. 160 pages. Informational.
Instructions for setting up and maintaining an aquarium. Includes notes on fish health. Most of the book is a color-illustrated manual of tropical fish with notes on their care. Useful.

TROPICAL SALTWATER AQUARIUMS - HOW TO SET THEM UP AND KEEP THEM GOING. Seymour Simon. Illustrated by Karl Stuecklen. Viking Press. 1976. Middle school and teacher reference. 90 pages. Informational.
At last! A really detailed how-to-do-it book for keeping specimens in a marine aquarium. Good reading for young scientists, but superb for teacher reference. Clear and concise. Bibliography. Index.

THE TRUE BOOK OF OCEANS. Katharine Carter. Illus. by Mary Gehr. Childrens Press. 1958. Primary. 46 pages. Informational.
An explanation about the oceans and their floors, surfaces, shores, tides, and currents. Includes a brief description of the plants and animals found in the oceans. Concludes with discussion of ways oceans help people.

THE TRUE BOOK OF PEBBLES AND SHELLS. Illa Podendorf. Illus. by Mary Gehr. Childrens Press. Primary. 47 pages. Informational.
An explanation, with accompanying pictures, of how some of the pebbles and shells that might be found on a beach came to be there. The author identifies for the young reader what the shells look like.

THE TRUE BOOK OF SHIPS AND SEAPORTS. Katharine Carter. Childrens Press. 1963. Primary. 47 pages. Informational.
A general, descriptive book about different kinds of ships. A brief history of ships and their importance is given. The author closes with a chapter about different kinds of seaports and ways in which people depend on them.

THE TRUE BOOK OF TROPICAL FISHES. Ray Broekel. Illus. by Rocco Dante Navigato. Childrens Press. 1963. Primary. 47 pages. Informational.
A book about tropical fishes, where they come from, and how they are caught and shipped to the United States. An explanation is then given about certain species that could be used in an aquarium. Pictures of different types of equipment used in an aquarium are included.

THE TRUE BOOK OF WHALES AND OTHER SEA MAMMALS. Elsa Posell. Illus. by Arthur Warheit. Childrens Press. 1963. Beginner readers. 47 pages. Informational.
This book is mainly about whales but discusses walruses, seals, sea cows, porpoises, and sea lions. Mentions the need for control of the whaling industry. Illustrated with drawings.

THE TRUE STORY OF SIR FRANCIS DRAKE, PRIVATEER. Will Holwood. Childrens Press. 1964. Grades 5-6. 138 pages. Biography.
Tells the exciting adventures of the famous English privateer in his many encounters with the Spanish Navy in the sixteenth century. Good reading. Sparsely illustrated. No bibliography but a two-page index.

TRUMPETER - THE STORY OF A SWAN. Jane and Paul Annixter. Illustrated by Gilbert Riswold. Holiday House. 1973. Middle School. 64 pages. Fiction.
A hauntingly beautiful tale of a trumpeter swan and his flock as they migrate from the Arctic to the Louisiana swamps. Danger and adventure, bravery and compassion. The evocative drawings reflect the majesty of the story.

TURTLES. Lois and Louis Darling. William Morrow and Co. 1962. Grades 5-6. 64 pages. Informational.
Turtles of various types, their place in the evolutionary process, their life cycle, and how to care for them as pets are discussed with clarity and enthusiasm. The illustrations and diagrams are of high quality. Especially interesting is an illustrated discussion of turtle structure, including a diagrammed comparison of the skull with that of a cotylosaur, the first known reptile.

TURTLES, TORTOISES, AND TERRAPINS. John Goode. Illus. by Alec Bailey. Charles Scribner's Sons. 1971. Middle School and others. 63 pages. Informational.
Nicely illustrated with 26 black-and-white drawings of a wide variety of the world's "turtles." Describes something about their evolution, anatomy, reproduction, and migration, and the problems man has caused them. There are instructions for keeping turtles as pets, a glossary, and an index.

TUTTLE'S SHELL. Sal Murdocca. Lothrop, Lee and Shepard. 1976. Grades 1-3. 64 pages. Picture book, fiction.
Entertaining story of a turtle whose shell is stolen. Clothed in a pumpkin, he enlists the help of his animal friends to outwit the thief and regain the shell. Witty illustrations.

THE TWILIGHT SEAS--A BLUE WHALE'S JOURNEY. Sally Carrighar. Illus. by Peter Parnall. Weybright and Talley. 1975. Upper Middle School. 179 pages. Fiction.
Describes a blue whale's life and journey, including unhappy encounters with humans. Beautiful black-and-white drawings and interesting, well-written details make this a valuable reading experience. No bibliography or index.

UNDERSEA EXPLORER: THE STORY OF CAPTAIN COUSTEAU. James Dugan. Harper and Row. 1957. Grades 6 and up. 142 pages. Biography.
This action-packed account of Jacques Yves-Cousteau and his underwater explorations includes last-minute rescues and the excitement of scientific detective work. Photos in black-and-white and full color, and line-drawing diagrams of equipment and work sites expand the text.

UNDERWATER EXPLORATION. Richard Bowood. Illustrated by B. Knight. Ladybird Books, Ltd. Middle School. 50 pages. Informational.
A small book which "tells of man's achievements in underwater exploration and travel. With clear text and superb color illustrations it describes the world under the sea, the early divers, and gradual development of diving helmets, suits, and other equipment, the invention of the submarine, and the latest devices for exploring the great depths."

THE UNDERWATER WORLD: A SURVEY OF OCEANOGRAPHY TODAY. Jim Thorne. Thomas Y. Crowell. 1969. Grades 6-9. 160 pages. Informational.
Much of this book is written in an exciting, fast-moving, first-person style. Jim Thorne is a scuba diver who has done much underwater archeological work. The book appears to have been well researched. The illustrations were carefully selected to complement the text. **

UNDERWATER ZOOS. Millicent E. Selsam. Illus. by Kathleen Elgin. Wm. Morrow & Co. 1961. Grades 5 and up. 96 pages. Informational.
The building and maintenance of fresh and salt water aquariums are discussed in this book. Appropriate animals, plants, and water conditions are clearly stated for those who would like to begin their own underwater zoos. Simple drawings support the text.

THE VIKINGS. J. R. L. Anderson. Illus. by Graham Humphreys. Penguin Books, Inc. 1974. Grades 3-6. 48 pages. Informational.
A kinder look at this infamous group than is usually seen. Their origin, lifestyle, voyages, crafts, and pirating raids are described. Color and pen-and-ink drawings help present a clearer picture of the Vikings' way of life.

THE VOYAGES OF COLUMBUS. Rex and Thea Rienits. The Hamlyn Publishing Group, Ltd. 1970. Upper Middle School and up. 151 pages. Informational.
Describes the life and times of Christopher Columbus, including early America, [illegible] culture at the time, four voyages, and the aftermath. Attractively and profusely illustrated with 47 color plates and many black-and-white illustrations. The problems Columbus had in gaining support for his proposals, and later, in fighting for recognition are well developed. There is a list of suggested readings and a two-page index.

THE VOYAGES OF DR. DOLITTLE. Written and illustrated by Hugh Lofting. J. B. Lippincott Co., 1922. Grades 4-10. 364 pages. Fiction.
This charming book tells of how Tommy Stubbins met and became the assistant of the marvelous Dr. Dolittle. John Dolittle speaks the languages of most of the animals and is a doctor and writer as well. In the course of the book, he interprets dog language during a trial to save a falsely accused man, copes with three stowaways, stops bullfighting on a Spanish island by out-performing the regular bullfighter (but leaving the animals unharmed) and much more. Fascinating for kids of all ages.

WATCHING ANIMALS FIND FOOD. Herbert H. Wong and Matthew F. Vessel. Illus. by Tony Chen. Addison-Wesley. 1970. Grades K-3. 39 pages. Picture book, informational.
Two boys on a fishing trip observe the feeding habits of various pond animals. The book presents the concept of food chains and where man fits in. Bold illustrations. A Science Series for the Young book.

WATCHING ANIMALS GROW UP. Herbert H. Wong and Matthew F. Vessel. Illus. by Harold Berson. Addison-Wesley. 1970. Grades K-3. 39 pages. Picture book, informational.
Children observe animal life in a pond. They see how baby animals grow and whether or not they are nurtured by their parents. Some frog eggs are taken home, where they change from egg to tadpole to frog. Illustrated in in-line drawings, some of which have color. A Science Series for the Young book.

WATER. Otis Peterson. Illus. by Dan Koerner. Garrard Pub. Co. 1966. Grades 3-5. Informational.
All facets of water are discussed in its relation to life. Water in the body, foods, the water cycle, pollution, irrigation, and transportation are some of the topics. Black-and-white photos and illustrations.

WATER AND MARSH BIRDS OF THE WORLD. Olive L. Austin. Illus. by Arthur Singer. Golden Press. 1967. 223 pages. Grades 6 and up. Informational.
Describes the major groups of water and marsh birds with primarily generalized natural history narratives.

WATER FOR TODAY AND TOMORROW. R.J. Lefkowitz. Illus. by Lawrence DiFiori. Parents' Magazine Press. 1973. Grades 4-5. 64 pages. Informational.
Water is all around us, as vapor, ice, rain, snow and fog. The author discusses the various kinds of water, how it is processed and transported to the home and its potential for benefit and destruction. Finally, there is a plea for respect and conservation of this valuable resource.

WATER IS WET. Sally Cartwright. Illus. by Marylin Hafner. Coward, McCann & Geoghegan, Inc. 1973. Grades 1-4. 26 pages. Experimental/Informational.
"Full of observations and suggestions for activities to show children the various qualities of water in all its forms." Simple, clean-cut illustrations complement the easy-to-follow suggestions.

WATER PLANTS. Laurence Pringle. Illus. by Kazue Mizumura. Thomas Y. Crowell Co. 1975. Grades K-3. 34 pages. Informational.
An introduction not only to water plants but also to the concept of the relationship of plants to animals in the food chain. Specific plantlife includes rushes, sedges, cattails, wild rice, arrowheads, duckweed, bladderwort, water lilies and water celery. A lively text with delicate illustrations.

THE WAVES. Herbert Zim. Illus. by Rene Martin. Wm. Morrow & Co. 1967. Upper Intermediate. 63 pages. Informational.
Water in motion, better known as waves, is explained in this book. Technical studies of waves and their significance are discussed. Also mentioned are tidal waves, their past destructiveness, and current warning devices used by the Coast and Geodetic Survey. Illustrated with pencil drawings.

WAVES AND BEACHES. Willard Bascom. Doubleday Anchor Books. 1964. Grades 6-12. 257 pages. Informational.
Willard Bascom, one-time Project Mohole director and later ocean engineering entrepreneur, has written an excellent introduction to waves, tides, and beaches. The student will appreciate this book because it is accurate and easy to read. It contains 24 black and white photographs and 77 text drawings. Part of the Science Study Series. **

WAVES, TIDES, AND CURRENTS. Elizabeth Clemons. Alfred A. Knopf. 1967. Grades 6-9. 102 pages.
This is a superb introduction to tides and currents with an emphasis on the East Coast of North America. Diagrams help explain the effect of the gravitational pull of the moon and sun. Tide tables are presented and explained, and an excellent chart and discussion of the major world currents are included. Possible future technology is discussed. Photographs, maps, and diagrams are plentiful and of high caliber.

WEATHER OR NOT. Wallene T. Dockery. Illus. by Steve Laughbaum. Abingdon Press. 1976. Grades 4 and others. 32 pages. Fiction.
Young people visit a weather station and are introduced to the basic principles of meteorology and how a weather forecast is made. Fictionalized format contains a lot of information.

THE WENTLETRAP TRAP. Jean Craighead George. Illustrations by Symeon Shimin. E.P. Dutton. 1978. Early elementary. 36 pages. Fiction.
A boy's premature desire to be self-sufficient leads him to a futile, though at times humorous attempt to capture an invaluable "wentletrap" shell, which will supposedly bring him wealth enough to buy those things that a man should have. Exquisite pencil drawings illustrate text.

WETLANDS - BOGS, MARSHES, AND SWAMPS. Lewis Buck. Illustrated by Gramb. Miller. Parents' Magazine Press. 1974. Grades 3-5. 63 pages. Informational.
A nicely-written book which explains how different wetlands are formed. Discusses indigenous animal and plant life and the food chain. Many one-color illustrations.

THE WHALE HUNTERS. Joseph Phelan. Time-Life Books. 1969. Grades 5-6. 52 pages. Informational.
Brings to life the treacherous, adventurous life of the early whalemen. Exciting color illustrations of whales, plus diagrams of the boats, the navigational equipment, and the tools of the trade.

WHALES AND DOLPHINS. J. I. Anderson. Illustrated by Judith Fringuello. Troll Associates. 1973. Grades K-3. 42 pages. Informational.
A presentation of the characteristics and life cycles of whales and dolphins. Illustrations showing comparative sizes and a map showing migration route are especially helpful.

WHALES, FRIENDLY DOLPHINS AND MIGHTY GIANTS OF THE DEEP. Jane Werner Watson. Illus. by Richard Amundsen. Golden Press. 1975. Grades 6-9. 61 pages. Informational.
Accounts of whales and dolphins, told in the present tense, are interspersed with informative passages and lend a feeling of excitement and immediacy to the text. The real drama of this book lies in the full-color illustrations, which convey a sense of power and action.

THE WHALES GO BY. Fred Phleger. Illustrated by Paul Galdone. Random House, Inc. 1959. Grades 1-3. 62 pages. Informational picture book.
An I Can Read Book about the migration of a Gray Whale from Northern seas to Southern waters. The first person narrative style helps young people to identify with the whale.

WHALES: THEIR LIFE IN THE SEA. Faith McNulty. Illus. by John Schoenherr. Harper and Row. 1975. Grades 6 and up. 88 pages. Informational.
A fairly thorough, factual treatment of whales, their evolution, habitat, life cycle, and characteristics of various species. The author, a conservationist, concludes with a plea to end hunting of whales. Exquisite black-and-white illustrations convey a feeling of majesty and motion but perhaps should be supplemented in the classroom with additional visual aids.

WHAT DOES A COAST GUARDSMAN DO? Grant Compton. Dodd, Mead and Company. 1968. Grades 6-9. 64 pages. Informational.
This book discusses the various responsibilities of the Coast Guard and reviews its history, the training and qualifications of various personnel, and the types of equipment used. Many photographs. A chart of insignia is included. Lacks an index.

WHAT DOES AN OCEANOGRAPHER DO? John F. Waters. Dodd, Mead & Co. 1970. Upper Intermediate. 64 pages. Informational.
Explains the science of oceanography and describes the work of oceanographers. The biological, chemical, physical, and geological aspects of oceanography are delineated. Illustrated with black-and-white photographs.

WHAT DOES THE TIDE DO? Jean Kinney. Illus. by Cle Kinney. Young Scott Books. 1966. Grades 1-3. 36 pages. Picture book, informational.
As a boy sits fishing from a wharf, he observes the various marine animals that appear as the tide rises and recedes. Gravitational causes of tides are explained.

WHEN THE TIDE GOES FAR OUT. Lorus and Margery Milne. Illus. by Kenneth Gosner. Atheneum Publishers. 1970. Upper Intermediate. 88 pages. Informational.
A description of the animals and plants that can be found on the beach when the tide goes far out. Also describes how the tides are caused and why the sea is important. New terms are explained.

WHEN THE WHALE CAME TO MY TOWN. Jim Young. Photographs by Dan Bernstein. Alfred A. Knopf. 1974. Grades 4-5. 36 pages. Informational.
For three days a boy watches over a whale stranded on a Provincetown beach. The prose is as gentle as the photographs.

WHEN THE WATER ANIMALS ARE BABIES. Elizabeth and Charles Schwartz. Holiday House, Inc. 1970. Grades 1-3. 33 pages. Informational.
The water animals are those that spend some or all of their lives in water, or who depend on water for their food. The babies and the mothering they receive are described. Illustrations show the animals in their native habitats. Includes manatee, loon, octopus, muskrat, and others.

WHERE THEY GO IN WINTER. Margaret Waring Buck. Abingdon Press. 1968. Upper Intermediate. 69 pages. Informational.
The author tells what happens to the many kinds of animals we see in warm weather when the cold weather arrives. Her discussion includes the part of the United States that has a cold winter season. The book is divided into chapters devoted to insects, fishes, birds, reptiles, amphibians, and mammals. Pencil drawings in the margins illustrate this book.

THE WHITE PALACE. Mary O'Neill. Illus. by Nonny Hogrogian. Thomas Y. Crowell Co. 1966. Lower Intermediate. 48 pages. Poetic fiction.
This is an animal fiction story that conveys information to the reader. It is the story of the life cycle of a Chinook salmon. His life begins and he moves into the "white palace." A plot develops and the author's descriptions of the fish's behavior and habitat are credible. Wash drawing illustrations are used in this book.

WHO NEEDS ALLIGATORS? Patricia Lauber. Illus. by Wm. Hutchinson. Garrard Pub. Co. 1974. Grades 1-4. 64 pages. Informational.
"This informative account of the American alligator traces its life history from egg to giant reptile and relates the alligator's way of life to its environment. . . the book becomes a moving plea for the conservation of wildlife."

WHY FROGS ARE WET. Judy Hawes. Illus. by Don Madden. Thomas Y. Crowell Co. 1968. Grades K-3. 35 pages. Picture book, informational.
Various frog attributes are introduced to young children. Included are variations in kind and size, ancestry, reproduction and growth, and hibernation. Illustrations are full of vitality and humor. A Let's Read and Find Out book.

WILLIAM BEEBE - UNDERWATER EXPLORER. Wyatt Blassingame. Illustrated by Victor Mays. Garrard Publishing Co. 1976. Grades 4-6. 96 pages. Biography.
A delightful account of the naturalist explorer and writer with emphasis on his work as a marine biologist.

WILLIE JASPER'S GOLDEN EAGLE: BEING AN EYEWITNESS ACCOUNT OF THE GREAT STEAMBOAT RACE BETWEEN THE NATCHEZ AND THE ROBERT E. LEE. F. N. Monjo. Illustrated by Douglas Gorsline. Doubleday and Co. 1976. Grades 4-5. 95 pages. Historical fiction.
Willie Jasper and his father find themselves personally involved in the steamboat race between the Natchez and the Robert E. Lee. Crammed with historic detail and Tom Sawyerish monologue, this story gets off to a slow start but speeds along nicely toward the end. Black and white illustrations are faintly reminiscent of daguerreotypes.

THE WONDERFUL WORLD OF THE SEA. James Fisher. Doubleday & Co. 1970. Upper Middle School and up. 96 pages. Informational.
A comprehensive coverage of the following: the origins and physical features of the seas; the seas' living inhabitants and their contributions to evolution; and the role of the sea in war, transportation, and food production. There is a 22-page encyclopedic glossary and a three-page index.

WONDERS OF A KELP FOREST. Joseph E. Brown. Dodd, Mead & Co. 1974. Grades 6-9. 80 pages. Informational.
The value and location of the great kelp forests are discussed. Particular emphasis is placed on the food chain and the destructive potential of a displacement within the chain. Inhabitants of the kelp beds are presented in text as well as in black and white photography.

THE WONDERS OF ALGAE. Lucy Kavaler. Illustrated by Barbara Amlick and Richard Ott. John Day Co., Inc. 1961. Upper Intermediate. 96 pages. Informational.
Describes the current and possible future uses of algae.

WONDERS OF AN OCEANARIUM. Lou Jacobs, Jr. Golden Gate Junior Books. 1965. Middle School. 80 pages. Informational.
Discusses the life forms commonly found in large aquaria for public viewing and/or research. Well illustrated with black-and-white photographs. Close-ups of fish, octopi, turtles, seals, walruses, whales, otters, and dolphins are shown.

WONDERS OF BARNACLES. Arnold Ross and William K. Emerson. Dodd, Mead, & Co. 1974. Grades 6 and up. 78 pages. Informational.
The life cycle, classification and groups, myths and tales, unusual types of barnacles are presented in textbook fashion. The economic impact of these animals, for benefit and harm, and suggestions for collecting are discussed. Drawings and photos in black-and-white. Glossary. Bibliography.

WONDERS OF SAND. Christie McFall. Dodd, Mead & Co. 1966. Grades 6 and up. 64 pages. Informational.
The kinds of sand, its creation, location of sand beaches, riptides, dunes, man's attempts to stabilize dunes, flora and fauna, and the economic values of sand are presented in a textbook style. Of particular value are charts and illustrations of various sand regions.

WONDERS OF SEA GULLS. Elizabeth Anne and Ralph W. Schreiber. Dodd, Mead and Co. 1975. Grades 6 and up. 80 pages. Informational.
This textbook approach to a study of sea gulls lists and describes various kinds of sea gulls, their feeding habits and life cycle, various social behaviors, and close relatives of the gull. An interesting chapter on man's relationship to gulls is presented. Photographs in black and white and some detailed line drawing are included.

WONDERS OF SEALS AND SEA LIONS. Joseph E. Brown. Dodd, Mead & Co. 1976. Grades 6-10. 80 pages. Informational.
This knowledgeable text includes a discussion of biological classification and expanded treatment of seals and sea lions, environmental adaptation, and the use of sea lions for military purposes at the Naval Undersea Center in San Diego. Photographs illustrate the text. A list of scientific names is a helpful feature.

WONDERS OF SPONGES. Morris K. Jacobson and Rosemary K. Pang. Dodd, Mead and Co. 1976. Grades 6 and up. 79 pages. Informational.
The authors present a thorough discussion of sponges including classes and physical characteristics, life cycle, fresh water types, and other oddities of the sponge group. The commercial sponge industry is discussed. Finally, there are suggestions for collecting specimens and conducting experiments. Black-and-white photographs and diagrams are descriptive and helpful. Glossary. Annotated bibliography.

WONDERS OF THE PELICAN WORLD. Joseph J. Cook and Ralph W. Schreiber. Illustrated by Ralph Schreiber. Dodd, Mead, and Co. 1974. Middle School. 64 pages. Informational.
A complete textbook on the life cycle of the pelican, with an interesting chapter on environmental hazzards. Excellent black and white photography. Appendix and index.

WONDERS OF THE TURTLE WORLD. Wyatt Blassingame. Dodd, Mead and Co. 1976. Grades 6 and up. 79 pages. Informational.
An interesting treatment of the subject of turtles, this book is a pleasure to read. The organization is clear. Photographs appear to be carefully selected to illustrate size and important characteristics.

WONDERS OF THE WORLD OF SHELLS, SEA, LAND, AND FRESH-WATER. Morris K. Jacobson and William K. Emerson. Dodd, Mead and Co. 1971. Grades 6-9. 80 pages. Glossary. Informational.
A thorough introduction to the mollusks, covering the classes, life cycle, types, uses, and unusual varieties of mollusks. Discusses how to collect and arrange a collection of shells.

WORLD BENEATH THE OCEANS. T. F. Gaskell. Illus. by Barry Evans. Natural History Press. 1964. Middle School. 149 pages. Informational.
A reference book about man's adventures with the oceans of the world as they have developed from early times until the time of the book's publication. The floors of the oceans are described as are the movements of the water. Plant and animal life found in the deep are also described. Illustrated with drawings and photographs.

THE YEAR OF THE SEAL. Victor B. Scheffer. Illus. by Leonard Everett Fisher. Charles Scribner's Sons. 1970. Upper Middle and others. 200 pages. Fiction.
By interweaving the lives of seals and humans, the author achieves a warm-hearted, sensitive, and engrossing account of a year in the life of an Alaskan fur sea. The viewpoint of the wildlife biologist is dominant and the writing is clearly authoritative. Bibliography and index are included.

YEAR ON MUSKRAT MARSH. Berniece Freschet. Illustrated by Peter Parnall. Scribner's Sons. 1974. Grades 5 and up. 51 pages. Informational.
A long descriptive narrative of life in a marsh in Minnesota's northern wilderness takes the reader through the seasonal changes. Text should be paged and indexed. Superb pen and ink illustrations and high-quality design.

YOU AND THE OCEANS. Diane Sherman. Illus. by Bill Sanders. Childrens Press. 1965. Lower Intermediate. 61 pages. Informational.
An introductory book about oceanography. Explains the ocean's beginnings, the interaction of sea and land, the ocean floors, and movements of the oceans. Discusses discoveries from the sea and future possibilities for the new uses of the ocean and its resources. Pastel drawings are used to illustrate this book.

YOU CAN MAKE SEASIDE TREASURES. Louis Beetschen (Editor). Pinwheel Books. 1971. Middle School and others. 32 pages. Informational.
Describes a number of arts and crafts activities that can be done with sand and other items commonly found on beaches. Included are sand molding, making shell necklaces, painting pebbles, building sand castles, and collecting shells. Also includes games to be played at the beach.

YOU WILL LIVE UNDER THE SEA. Fred and Marjorie Phleger. Illus. by Ward Brackett. Random House. 1966. Primary. 61 pages. Informational.
A futuristic picture of what life may be like under the sea. Colorful pictures help make "future happenings" understandable to the beginning reader.

YOUNG SPORTSMAN'S GUIDE TO SURFING. Ross R. Olney. Scholastic Book Services. 1965. Upper Middle School and others. 96 pages.
An introductory surfing manual with black-and-white photographs. Practical pointers from experts. Inexpensively produced. Glossary included.

ZENAS AND THE SHAVING MILL. F. N. Monjo. Illustrated by Richard Cuffari. Coward, McCann, and Geoghegan, Inc. 1976. Grades 3-5. 48 pages. Historical Fiction.
An easy-to-read book. During the Revolutionary War the Quakers on Nantucket Island were harassed by both the Liberty Boys and the British. Zenas, while smuggling food back to the island, lures a pursuing American privateer, on "shaving mill", aground Horseshoe Shoal. Seen through Zena's eyes, the Revolutionary War takes on a unique aspect.

PROJECT COAST

BOOKS ABOUT

THE MARINE ENVIRONMENT FOR YOUNG PEOPLE

Project COAST has compiled the following reading list of books related to marine and coastal environments for young people age thirteen and older. However, people younger than thirteen will find many of these books interesting and readable.

We suggest you also refer to the first section of this book, the Children's Section, for additional listings since many books listed there have a wide interest and reading range. We have avoided listing the same title in both places, although both age groups would be interested in reading many of the books.

Only a few of the books in this section have annotations, but as resources permit Project COAST hopes to continue to annotate these books. The annotations are those of Project COAST in most cases. Credit is given for other annotations used, where that information was available. It is our aim to include significant books in the area of marine and coastal environments whether they are factual, fictional or philosophical.

Project COAST uses a multi-disciplinary approach to marine education. Learning about one subject often contributes to knowledge about another. For example, you may find individual books on this list which relate to both science and literature, history and marine science, nutrition and marine biology, ecology and oceanography, language arts and pollution, or geography and zoology. Teachers of <u>any</u> subject will be able to find pertinent and useful books on this list to include in their own reading lists. The marine environment can be related to all aspects of learning.

Our goal is to arouse students to an awareness of the world around them, to provide them with some knowledge of their relationship to the world, and to increase their feelings of responsibility toward their environment.

The <u>Subject Guide to Books in Print</u>, found in most libraries, is our chief source for this list. We have selected only those books we deemed most relevant. Other useful sources of book listings include the following:

<u>Junior High School Library Catalog</u>, The H. W. Wilson Company, New York.

<u>Senior High School Library Catalog</u>, The H. W. Wilson Company, New York.

<u>Your Reading: A Booklist for Junior High School Students</u>, Prepared by Jerry L. Walker, 1975, National Council of Teachers of English, 1111 Kenyon Road, Urbana, IL 61801.

<u>Books for You: A Booklist for Senior High School Students</u>, Prepared by Kenneth L. Donelson, 1976, National Council of Teachers of English, 1111 Kenyon Road, Urbana, IL 61801

Two annotation sources used in this book are as follows:

* <u>Books on Exhibit</u>. 1976. Mt. Kisco, NY 10549 .

** <u>A Bibliography of Popular Books on the Marine Environment and Wetlands Ecology</u>. Marine Environment Curriculum Study, University of Delaware, Newark, DE 19711. Published in 1971.

LIST OF BOOKS ABOUT

THE MARINE ENVIRONMENT FOR YOUNG PEOPLE

ABANDON SHIP. Hal Butler. Henry Regnery Co., Chicago. 1974.

ABYSS: THE DEEP SEA AND THE CREATURES THAT LIVE IN IT. C. P. Idyll. Thomas Y. Crowell Co., New York. 1971.

ABYSSAL ENVIRONMENT AND ECOLOGY OF THE WORLD OCEANS. Robert J. Menzies et al. John Wiley and Sons, Inc., New York. 1973.

THE ACT OF LIFE. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1972.

ADVENTURES IN UNDERWATER TREASURE HUNTING. Harry E. Riesenberg. Frederick Fell, Inc., New York. 1965.

ADVENTURES OF A REEFCOMBER. Jerry Greenberg. Seahawk Press, Miami.

ADVENTURES ON THE HIGH SEAS. Douglas Reeman. Walker and Co., New York. 1971. Grade 7 up.

AMERICAN FOOD AND GAME FISHES. David Starr Jordan and Barton Warren Evermann. Dover Publications, Inc. 1969. Grades 9-12. 50 + 574 pages. Informational.
This book was first published in 1902. This reprint is of the last revised (1923) edition. Primarily a popular book, it nonetheless includes enough technical information to be useful in the identification of fishes. Included are a glossary, an index, and 330 illustrations. **

AMERICAN SEA SONGS AND CHANTEYS. Frank Shay, ed. Books for Libraries, Inc., Plainview, NY. 1948.

ANATOMY OF AN EXPEDITION. Henry W. Menard. McGraw-Hill, Inc. 1969. Grades 9-12. 255 pages. Informational/historical.
The noted marine geologist describes the human and the scientific aspects of a major oceanographic expedition. The book shows why such voyages require much planning and coordination. Much of the book is in the form of a diary. It contains many illustrations, an index, and chapter references. **

THE ANATOMY OF NELSON'S SHIPS. C. Nepean Longridge. International Pubns. Service, New York. 1973.

ARCHAEOLOGY OF SHIPS (Archaeology Ser.). Paul Johnstone. Henry Z. Walck, Inc., Div. of David McKay Co., Inc., New York. 1974. Grade 8 up.

ARMCHAIR ADVENTURE FOR THE ANGLER. Charles K. Fox. A. S. Barnes and Co., Inc., Cranbury, NJ. 1970.

** Schweitzer, James P., editor. 1971. A Bibliography of Popular Books on the Marine Environment and Wetlands Ecology. Marine Environment Curriculum Study, University of Delaware, Newark, DE

THE ART OF MOTION. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York.

THE ARTICULATE SAILOR. James F. Tazelaar. John DeGraff, Inc., Clinton Corners, NY. 1974.

ARTS OF THE SAILOR. Harvey G. Smith. Funk & Wagnalls Co., Dist. by Thomas Y. Crowell Co., New York. 1968.

ATTACK AND DEFENSE. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York.

BEACHES: THEIR LIVES, LEGENDS AND LORE. Robert Manley, Seon Manley. Chilton Book Company. 1968. Grades 10-12. 383 pages. Informational.
The Manleys are a husband and wife team. She is a writer and graphics designer; he is an engineer with a philosophical bent. This book is a fascinating potpourri of information about beaches. They often range far afield of their subject, but this well illustrated book provides delightful reading. **

BEAUTIFUL SWIMMERS - WATERMEN, CRABS AND THE CHESAPEAKE BAY. William W. Warner. Drawings by Consuelo Hanks. Little, Brown and Company. 1976. Grades 7-12. 304 pages. Informational fiction.
"Beautiful swimmers" is a translation of the Latin name for the blue crab; Beautiful Swimmers is a book detailing the life of the crab and of the men who catch them. We get to know the crabbers and follow the progress of the crabs after they are caught. Full of both information and anecdotes, this chronicle of the Chesapeake Bay area also contains a list of books for further reading and of places to visit.

THE BERMUDA TRIANGLE. Charles Berlitz. Doubleday and Co., Inc., Garden City, NY. 1974.

BERMUDA TRIANGLE. Adi-Kent T. Jeffrey. New Hope Pub. Co., Lahaska, PA. 1973.
Contemporary, realistic, intelligent treatment of a modern mystery.

BEYOND THE MISTS. Nathaniel Benchley. Harper and Row Pubs., Inc., Scranton, PA. 160 pages.
The sole survivor of a disastrous Viking raid in England, a young Danish adventurer sails with Leif Ericson to Iceland, Greenland and beyond the mists to Vinland. Drawn from the Norse sagas, here is a fascinating account of the violent and hazardous world of Viking raiders and explorers. *

BIRDS OF THE ATLANTIC OCEAN. Ted Stokes and Keith Shackleton. The Macmillan Co. 1968. Grades 8-12. 136 pages. Informational.
British author Ted Stokes, a well-known ocean bird enthusiast, wrote this lively and authoritative book. Throughout the book there are fascinating sidelights on man's historical involvement with ocean birds. Marine artist Keith Shackleton contributed the many oil paintings that make this a very handsome book. **

THE BLACK PEARL. Scott O'Dell. Houghton Mifflin Co., Boston. 1967.
The adventure examines the myths and superstitions of another culture.

BOATS, RAFTS, SHIPS. Wolfgang Rudolph. D. Van Nostrand Co. (and Reinhold). Cincinnati. 1974.

BOOKS OF THE SEA: AN INTRODUCTION TO NAUTICAL LITERATURE. Charles L. Lewis. Greenwood Press, Inc., Westport, CT. 1972.

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* Books on Exhibit. 1976. Mt. Kisco, NY 10549.

THE BOTTOM OF THE SEA AND BEYOND. Carl Heintze. Thomas Nelson, Inc., Nashville. 1975.

BOUNTY OF THE CHESAPEAKE: FISHING IN COLONIAL VIRGINIA. James Wharton. University Press of Virginia, Charlottesville. 1957.

THE BOUNTY TRILOGY. Charles Nordhoff and James N. Hall. Little, Brown & Co., Waltham, MA. 1946.

BOY BENEATH THE SEA. Arthur C. Clarke. Harper and Row Pubs., Inc., Scranton, PA. 1958.

BOY'S BOOK OF FISHES. Edward C. Migdalski. Ronald Press Co., New York. 1964.

BOY'S BOOK OF FROGS, TOADS AND SALAMANDERS. Percy A. Morris. The Ronald Press Co. 1957. Grades 8-12. 240 pages. Informational.
This book describes nearly all the various kinds of amphibians in the U. S. and most are illustrated by photos taken in their natural surroundings. Classification of the amphibians and an index appear at the back of the book.

THE BOY'S COMPLETE BOOK OF FRESH AND SALTWATER FISHING. Oliver H. Rodman and Edward C. Janes, Little, Brown & Co., Waltham, MA. 1949. Grades 7-10.

BRITISH TAR IN FACT AND FICTION. Charles N. Robinson. Gale Research Co., Detroit. 1968. (repr. of 1901 ed.).

BUCCANEERS AND MAROONERS OF AMERICA. Alexandre O. Exquemelin. Howard Pyle, ed. Gale Research Co., Detroit. 1971. (repr. of 1891 ed.).

BUCCANEERS, CORSAIRS AND FILIBUSTERS. Maurice Besson. Universities Press, Affiliate of Greenwood Press, Inc., Westport, CT. 1929.

BUCCANEERS OF AMERICA. John Exquemelin. Dover Pubns., Inc., New York. 1966. (Translated by Alexis Brown.)

BY THE WIND. Peter Baum. D. Van Nostrand Co. (and Reinhold), Cincinnati. 1973.

CANNERY ROW (A Pictorial History Series: Volume I). John and Regina Hicks. Creative Books. Carmel, CA. 1972.

CANNERY ROW. John Steinbeck. The Viking Press, New York. 1945.

CARRY ON, MR. BOWDITCH. Jean Lee Latham. Illus. by John O'Hara. Houghton Mifflin Co., New York. 1955. Grades 7-12.

CAPE GELIDONYA: A BRONZE AGE OF SHIPWRECK. George F. Bass, et al. American Philosophical Society, Philadelphia. 1967.

CAPE HENLOPEN LIGHTHOUSE. John W. Beach. Cornell Maritime Press, Inc., Cambridge, MD. 1970.

CAPTAIN OF THE PHANTOM. Henry J. Sargent, Jr. Mystic Seaport, Inc., Dist. by Wesleyan University Press, Middletown, CT. 1967.

THE CAVE DIVERS. Robert F. Burgess. Dodd, Mead, and Co., New York. 1976.

CHALLENGE OF THE SEA (Ocean World of Jacques Cousteau Series, Volume 18). Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1975.

CHALLENGING THE DEEP: THIRTY YEARS OF UNDERSEA ADVENTURE. Hans Hass. William Morrow & Co., Inc., West Caldwell, NJ. 1972.

CHARLIE YORK: MAINE COAST FISHERMAN. Harold B. Clifford. International Marine Publishing Co., Camden, ME. 1974.

COLONIZING THE SEA. Erik Bergaust. G. P. Putnam's Sons, New York. 1976. Grade 6 up.

COMMON SEASHORE LIFE OF SOUTHERN CALIFORNIA. Joel W. Hedgepeth, Ph.D. Illustrated by Sam Hinton. Naturegraph Co., Healdsburg, CA. 1961. High school to adult. 63 pages. Informational. An authoritative guide to life in the rocky shores, coves, and bays of Southern California, with an emphasis on scientific names. Illustrations primarily in black and white put it at a disadvantage for using as a field guide. Bibliography. Index.

THE COMMUNITY OF LIVING THINGS IN FRESH AND SALT WATER. B. Bartram Cadbury. Creative Educational Society, Inc., Mankato, MN. 1956. 128 pages.

COOKING ON YOUR KNEES: A GUIDE FOR COOKING AFLOAT ON ANY SIZE BOAT. Beverly Fuller, David McKay Co., Inc., New York. 1973.

CRUISE OF THE LANIKAI. Kemp Tolley. Naval Institute Press, Arco Publishing Co., New York. 1973.

THE CURIOUS MOLLUSKS. Marie M. Jenkins. Holiday House, Inc., New York. 1972. Grade 7 up.

DANGER—SHARK! Jean Campbell Butler. Little, Brown and Company. 1964. Grades 7-12. 243 pages. Informational.
This book is a popular adaptation of the symposium book Sharks and Survival, edited by Perry Gilbert (D. C. Heath & Co.), which contained scientific papers given at the 1958 New Orleans Shark Conference. The book is well written and authoritative. There is an index and a very extensive bibliography of shark literature.**

DANGEROUS SEA CREATURES: A COMPLETE GUIDE TO HAZARDOUS MARINE LIFE. Thomas Helm. Funk & Wagnalls Co., Dist. by Thomas Y. Crowell Co., New York. 1976.

DARING SEA CAPTAINS (Full Ahead Books). Marcia Scott. Lerner Publications Co., Minneapolis. 1973.

DAY AT SEA: FORBIDDEN PHOTOGRAPHS. Ralph Gibson. Lustrum Press, Dist. by Light Impressions, Rochester, NY.

DEATH OF THE THRESHER. Norman Polmar. Chilton Book Co., Radnor, PA. 1964.

Documentary account of the loss of a U. S. [illegible]mic submarine with its one hundred twenty-nine crewmen.

DEATH RAFT: THE HUMAN DRAMA OF THE MEDUSA SHIPWRECK. Alexander McKee. Charles Scribner's Sons, Totowa, NJ. 1976.

THE DEEP RANGE. Arthur C. Clarke. Harcourt Brace Jovanovich, Inc., New York. 1957.

A fictional, futuristic look at how sea farming could provide plants and animals to feed the world.

THE DEEP-SEA WORLD: THE STORY OF OCEANOGRAPHY. Charles Coombs. William Morrow & Co., Inc., West Caldwell, NJ. 1966.

DEEP-WATER, ANCIENT SHIPS: THE TREASURE VAULT OF THE MEDITERRANEAN. Willard Bascom. Doubleday & Co., Garden City, NY.

DEEPWATER CHALLENGE. Frank Bonham. Thomas Y. Crowell Co., New York. 1963.

Young boy determines to become family breadwinner; learns that trying to outwit the sea is a tough and dangerous job.

DIARY OF THE DEPTHS. Robert E. Cahill. Dorrance & Co., Philadelphia. 1972.

DICTIONARY OF FISHES. Rube Allyn. Great Outdoors Publishing Co., St. Petersburg, FL.

A DICTIONARY OF SAILOR'S SLANG. W. Granville. Academic Press, Inc., New York.

DICTIONARY OF SHARKS. Patricia Pope. Great Outdoors Publishing Co., St. Petersburg, FL. 1973.

DISASTER LOG OF SHIPS. Jim Gibbs. Superior Pub. Co., Seattle. 1971.

DIVING FOR SCIENCE. Lynn Poole. Whittlesey House. 1955.

Non-fiction. Diving skills are shown to be essential to science in understanding the sea and in planning for future use of marine resources.

DR. BOMBARD GOES TO SEA. Alain Bombard. Vanguard Press, Inc., New York. Grade 7 up.

DOLPHIN SMILE. Eleanore Devine and Martha Clark. Macmillan Publishing Co., Inc., Riverside, NJ. 1967. Grade 9 up.

DOLPHINS, SEALS & OTHER SEA MAMMALS (Animal World Series). David Stephen, ed. G. P. Putnam's Sons, New York. 1973. Grades 7-10.

DOWNSTREAM: A NATURAL HISTORY OF THE RIVER. John Bardach. Harper & Row. 1964. Grades 9-12. 278 pages. Informational.
Downstream traces the changing ecological patterns of streams as they broaden into rivers headed to the sea. Glaciers, lakes, waterfalls, bogs, and estuaries are also discussed. The author is a professor (School of Natural Resources) at the University of Michigan. The book is illustrated and indexed.**

THE DRAMA OF THE OCEANS. Elizabeth Mann Borgese. Harry N. Abrams, Inc., New York. 1973. Grades 11 and 12. 258 pages.
This superbly illustrated book takes us on a tour of the ocean, covering the geography of the ocean floor, formation of continents, ocean life and evolution, sunken ships and cities, fishing, boating, offshore drilling and mining, underwater cities of the future, and more. Throughout the book the author tries to convey the sense of wonder she feels toward her topic. The book has 136 illustrations and an index.

THE DREAD FISHWISH. George Denny. Freshet Press, Inc., Rockville Centre, New York. 1974.

EBB AND FLOW: THE TIDES OF EARTH, AIR, AND WATER. Albert Defant. Translated by A. J. Pomerans. University of Michigan Press. 1958. Grades 9-12. 121 pages. Informational.
Albert Defant's small book Ebbe und Flut des Meeres der Atmosphare und dar Erdfeste was published in 1953. Its translation into English provided one of the best popular books on the tidal phenomenon in English. It treats a highly technical subject in a way that is easily understood. Its mathematical content is held to a merciful minimum. There are 64 illustrations. **

THE ECOLOGY OF THE SEAS. D. H. Cushing and J. J. Walsh. W. B. Saunders Co., Subs. of Columbia Broadcasting System, Philadelphia. 1976.

THE EDGE OF THE SEA. Rachel Carson. Illustrated by Bob Hines. Houghton Mifflin Company. Boston. 1955. Grades 8-12. Informational. 276 pages.
Describes how the tides, the waves, and the ocean currents influence the shore life of three different enviroments: The Rocky Shore, The Rim of Sand, and The Coral Coast. The book can be read for insight into the forces shaping the lives of coastal life, or it can be used as a field guide, for it contains many detailed drawings and a classifying appendix.

THE EDIBLE SEA. Paul J. Hill & Mavis Hill. A. S. Barnes & Co., Inc., Cranbury, NJ. 1976.

ENCYCLOPEDIA OF AMERICAN SHIPWRECKS. Bruce D. Berman. Mariner's Press, Inc., Boston. 1972.

THE ETERNAL SEA: AN ANTHOLOGY OF SEA POETRY. W. M. Williamson, ed. Books for Libraries, Inc., Plainview, NY. 1946.
Twenty-one chapters of poetry arranged by titles such as "The Call of the Sea," "Homeward Bound; Making Port," "Fishermen..."

EUELL GIBBONS' BEACHCOMBER'S HANDBOOK. Euell Gibbons. David McKay Co., Inc., New York, 1967.

EXPLORERS OF THE SEA: FAMOUS OCEANOGRAPHIC EXPEDITIONS. Muriel Guberlet. The Ronald Press Co., New York. 1964.

EXPLORING OCEAN FRONTIERS: WHO OWNS THE SEAS? (Background Books for Young People). Parents Magazine Press. 1970. Grade 7 up.

EXPLORING THE OCEAN WORLD: A HISTORY OF OCEANOGRAPHY. C.P. Idyll, editor. Thomas Y. Crowell Co. 1969. Grades 8-12. 280 pages. Informational.
This very large book examines oceanography's past and present. The first chapter, written by Idyll, is a history of marine science. Succeeding chapters, each written by a recognized authority, review the development of oceanography's specialized branches. There are over 200 illustrations, an oceanographic date list, an index, and extensive bibliographies. **

EXPLORING PACIFIC COAST TIDE POOLS. Ernest Braun and Vinson Brown. Naturegraph Co., Healdsburg, CA. 1966. Grades 7-12. 57 pages.
In this book the authors aim to create a feeling of oneness with the life of our rocky shores. In their romantic yet accurate writing they enliven this factual book which contains a 15-page systematic list of plants and animals at the back. Colorful illustrations.

EXTINCT & VANISHING MAMMALS OF THE WESTERN HEMISPHERE. Glover M. Allen. Cooper Square Pubs., Inc., New York. 1973 (1942)

FALCONER'S MARINE DICTIONARY. William Falconer. David and Charles, Inc., North Pomfret, VT. 1970.

FAMOUS VOYAGES IN SMALL BOATS. John Marrett. S. G. Phillips, Inc., New York. 1957. Grades 7-10.

THE FANTASTIC VARIETY OF MARINE ANIMALS. Madeline Angell. The Bobbs-Merrill Co., Subs. of Howard W. Sams & Co., Indianapolis.

FARMING THE EDGE OF THE SEA. E. S. Iversen. Introduction by F. G. Walton Smith. Fishing News Books Ltd. 1968. Grades 9-12. 301 pages. Informational.
Iversen, a leading authority on mariculture, recounts the species presently farmed and examines the species that have crop potential. He lists sea farming's hoped-for benefits and its limitations as well. The book has 158 illustrations, a glossary, a bibliography, and an appendix. **

THE FASCINATING WORLD OF THE SEA: CIRCLING THE GLOBE FOR THE WILD SEASHELL. Elva D. Sheets. Crown Pubs., Inc., New York. 1974.

FAST & ABLE: LIFE STORIES OF GREAT GLOUCESTER FISHING SCHOONERS. Gordon W. Thomas & Paul B. Kenyon, eds. Nelson B. Robinson. 1973.

THE FELLOWSHIP OF THE CRAFT: CONRAD ON SHIPS & SEAMEN & THE SEA. Chester F. Burgess, Kennikat Press, Corp., Subs. of Taylor Pub. Co., Port Washington, NY. 1976.

FELL'S GUIDE TO SUNKEN TREASURE SHIPS OF THE WORLD. Harry E. Riesenberg & A. A. Mikalow. Frederick Fell, Inc., New York. Grade 9 up.

FELL'S OFFICIAL GUIDE TO DIVING: PLAIN, HIGH, FANCY, PLATFORM, COMEDY & ACROBATIC. Harry Froboese. Frederick Fell, Inc., New York. 1965. Grade 7 up.

A FINE KETTLE OF FISH STORIES. Ed Zern. Winchester Press, New York. 1972.

FIRST AID AFLOAT, OR WHAT TO DO WHEN THE DOCTOR CAN'T COME. Paul B. Sheldon. Yachting Pub. Co., New York. 1972.

FISH AND HOW THEY REPRODUCE. Dorothy Hinshaw Patent. Illus. by Matthew Kalmenoff. Holiday House. 1976. Grades 7 and up. 128 pages. Informational.
Dr. Patent explains the variety of fish and their evolution, breathing, habitats, courtship behaviors, and reproduction. Many special examples are described with an emphasis on survival and adaptation to the environment. Glossary and bibliography.

FISH DIRECTORY. Philip Deemer, compiled by. Jarrow Press, Inc., Denver. 1973.

FISH IN NUTRITION. E. Heen & R. Kreuzer, eds. Unipub, Inc., a Xerox Education Co., New York. 1962.

FISH STORIES. Edited by D. W. Bennett. American Littoral Society. 1979. High school to adult. 75 pages. Essays.
A rather curious collection of fishing tales likely to be of interest primarily to the dedicated fisherman.

FISH TALES & OCEAN ODD BALLS. William B. Gray. A. S. Barnes & Co., Inc., Cranbury, NJ. 1970.

THE FISHERMAN'S LOVE (Tales from the Orient Series). Lin Lan Ku Wan-Chuan, ed. Ed. Langstaff Books, S. Pasadena, CA.

FISHING. Boy Scouts of America. Boy Scouts of America, N. Brunswick, NJ. 1974. Grades 7-12.

FISH FLEET BOY. Steve Lomas. Doubleday & Co., Inc., Garden City, NY. 1961.
Conflict between a government boat, Flying Fish, and a local fishing community. A young boy, Don, is fascinated by the work of the experts. Trouble brews between the town and the Flying Fish.

FISHING FROM THE EARLIEST TIMES. William Radcliffe. Ares Pubs., Inc., Chicago. 1974.

THE FISHING IN PRINT. Arnold Gingrich. Winchester Press, New York. 1974.

FISHING WIDOWS (Sportsmen's Classics Series). Nick Lyons. Crown Pubs., Inc., New York. 1974.

THE FITNESS OF THE ENVIRONMENT. Lawrence J. Henderson. Introduction by George Wald. Beacon Press. 1958. Grades 10-12. Informational.
Written in 1912, this book predated and anticipated the rapid developments in physiology, biochemistry, and physical chemistry of the twentieth century. Henderson's writings have special appeal to modern youth because he, like they, has a concern for "meaning." An introduction and footnotes are provided by George Wald. The book is indexed. **

FLOTSAM, JETSAM & LAGAN. Ernie Hall. Cornell Maritime Press, Inc., Cambridge, MD. 1965.

FLOWERS OF THE SEA. Eric W. Bush, ed. Naval Institute Press, Dist. by Arco Pub. Co., Inc., New York. 1970.

FOLK-LORE AND FOLK-STORIES OF WHALES. Marie Trevelyan. Norwood Editions, Norwood, PA.

FOLKLORE AND THE SEA. Horace Beck. Wesleyan University Press, Middletown, CT. 1973.

FOLLOW THE WATER. Varley Lang. John F. Blair, Pub., Winston-Salem, NC. 1961.

FOR ALL THAT LIVES — WITH THE WORDS OF ALBERT SCHWEITZER. Ann Atwood & Erica Anderson. Charles Scribner's Sons, New York. 1975.

THE FOREST AND THE SEA: A LOOK AT THE ECOLOGY OF NATURE & THE ECOLOGY OF MAN. Marston Bates. Vintage Books, Inc., New York. 1960.

THE FRAIL OCEAN. Wesley Marx. Coward-McCann, Inc. 1967. Grades 9-12. 248 pages. Informational.
Mr. Marx's widely read book has done much to marshal public interest in the ecology movement. The message of the book, often and eloquently repeated, is that the ocean is too frail to withstand the persistent destructiveness of man. There are 16 black and white photographs, an extensive bibliography, and six appendices. There is no index. **

FRANCIS CHICHESTER: A BIOGRAPHY. Anita Leslie. Walker & Co., New York. 1975.
Inspirational story of a man who survived plane crashes and storms, and battled lung cancer in his quest for physical adventure in the air and on the seas. *

FRIENDLY PORPOISES. William B. Gray. A. S. Barnes & Co., Inc., Cranbury, NJ. 1974.

FRONTIERS OF THE SEA (revised edition). Roger C. Cowen. Doubleday & Co., Garden City, NY. 1969. Grades 8-12.
When it first appeared in 1960, Frontiers became an oceanographic best seller. This revised edition updates the original book to include oceanographic events that took place during the decade of the sixties. The book is written in a lucid and authoritative prose. *

THE FUNNEL OF GOLD. Mendel Peterson. Little, Brown & Co., Inc., Waltham, MA. 1975.

THE FUTURE OF THE OCEANS. Wolfgang Friedmann. George Braziller, Inc., New York. 1971.

GEMS OF WORLD OCEANS: HOW TO COLLECT WORLD SEA SHELLS. A. Gordon Melvin. Naturegraph Pub. Co., Healdsburg, CA. 1964.

GLORY OF THE SEAS. Michael J. Mjelde. Wesleyan Univ. Press, Middletown, CT. 1970.

THE GOLDEN AGE OF PIRACY (Williamsburg in America Series). Hugh Rankin. Colonial Williamsburg Foundation, Williamsburg, VA. 1969.

GRAVEYARD OF THE ATLANTIC. David Stick. Univ. of North Carolina Press, Chapel Hill, NC. 1952.

GREAT ADVENTURES IN SMALL BOATS. Mary L. King & David Klein. Macmillan Pub. Co., Inc., Riverside, NJ. 1963.

GREAT AMERICAN SHORT STORIES. E. Taggard, ed. Bantam Books, Inc., New York. 1963.

Athletes learn to work with the water's whims and to deal effectively with each other.

THE GREAT GREEN: MEMOIRS OF A MERCHANT MARINER. Calvin Kentfield. The Dial Press, NY. 1974.

GREAT MIGRATION: THE ATLANTIC CROSSING BY SAILING SHIP SINCE 1770. Edwin C. Guillet. Univ. of Toronto Press, Buffalo, NY. 1963.

GREAT NAVIGATORS AND DISCOVERERS. John A. Brendon. Books for Libraries, Inc., Plainview, NY. 1930.

GREAT SEA STORIES OF ALL NATIONS. H. M. Tomlinson, ed. G. G. Harrap & Co., London, 1930.

Wide range of stories from Greece, Rome, Persia, Great Britain, Australia, France, Italy, Spain, America, and Biblical countries.

GREAT UNDERSEA ADVENTURES. Helen Wright & Samuel Rapport, ed. Harper & Row Pubs., Scranton, PA. 1966. Grade 7 up.

THIS GREAT AND WIDE SEA: AN INTRODUCTION TO OCEANOGRAPHY AND MARINE BIOLOGY. R. E. Coker. Harper & Row Publishers, 1962. Grades 8-12. 325 pages. Informational.
Since its appearance in 1947, the late R. E. Coker's book has influenced many students to follow careers in ocean science. It still enjoys a wide readership. Although it needs revision, it continues to be a well-planned, concise, and fascinating book about the ocean. There are 50 illustrations, a bibliography, and an index.

GUIDE TO MARINE FISHES. Alfred Perlmutter. New York Univ. Press, New York. 1961. Grade 9 up.

GUIDE TO THE SEA. Jacques Cousteau, intro. by. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1975.

THE GULL'S WAY. Written and illustrated by Louis Darling. William Morrow and Company. New York. 1965. Grades 7-12. 96 pages. Informational.
Darling describes his experiences on a small island off the coast of Maine, where he spent six weeks observing and photographing gulls. He details the courtship of the birds, the birth of their young, feeding, and learning to fly. Illustrated with numerous drawings and photographs, this book is a detailed study of the life of sea gulls.

HANDICRAFTS OF THE SAILOR. Steven Banks. Arco Pub. Co., Inc., New York. 1974.

HARRAP BOOK OF SEA VERSE. Ronald Hope, ed. Books for Libraries, Inc., Plainview, NY. 1960.

HARVEST OF THE SEA. John Bardach. Harper & Row Pubs., Inc., Scranton, PA. 1968.

HEALTH AND BEAUTY FROM THE SEA. Molly Castle. Mason Charter, New York. 1971.

THE HERITAGE OF THE BOUNTY: THE STORY OF PITCAIRN ISLAND THROUGH SIX GENERATIONS. Harry L. Shapiro. AMS Press, Inc., New York. 1976 (1934).

HISTORY OF FISHES. P. H. Greenwood & J. R. Norman. Halstead Press, New York. 1975.

A HISTORY OF LIGHTHOUSES. Patrick Beaver. Citadel Press, Subs. of Lyle Stuart, Inc., Secaucus, NJ. 1973.

HISTORY OF PIRACY. Phillip Gosse. Burt Franklin Pub., Dist. by Lenox Hill Pub. and Dist. Corp., New York. 1969 (1932).

A HISTORY OF SEAFARING BASED ON UNDERWATER ARCHAEOLOGY. George F. Bass, ed. Walker and Co., New York. 1972.

HOME IS THE SEA: FOR WHALES. Sarah R. Riedman & Elton T. Gustafson. Abelard-Schuman, Ltd., New York. 1971. Grade 7 up.

THE HOT BLUE SEA. Richard Jessup. Doubleday & Co., Inc., Garden City, NY. 1974.

A former sailor, Jessup adds authenticity to this story of a man willing to fight for love — he fights a hurricane, the law, and the unknown.

HOW TO ABANDON SHIP. Philip Richards & John J. Banigan. Cornell Maritime Press, Inc., Cambridge, MD. 1943.

HOWARD PYLE'S BOOK OF PIRATES. Howard Pyle. Harper & Row Pubs., Inc., Scranton, PA. 1921. Grades 7-9.

I DIVE FOR TREASURE. Harry E. Rieseberg. Frederick Fell, Inc., New York. 1970. Grade 9 up.

AN ICELAND FISHERMAN. Pierre Loti. E. P. Dutton & Co., Inc., New York.

Tells of the love of a group of people for the sea, and how the sea influences every aspect of their life: the superstitions, the faith, and the beauty.

THE ILLUSTRATED ETERNAL SEA. Howard Chapnick, ed. Grosset & Dunlap, Inc., New York. 1976.

IMPINGEMENT OF MAN ON THE OCEANS. Donald W. Hood, ed. Wiley Interscience, John Wiley & Sons, Inc., New York. 1971.

INCREDIBLE MYSTERIES AND LEGENDS. Edward R. Snow. Dodd, Mead & Co., Inc., New York. 1967.

INDIAN OCEAN TREASURE. Arthur C. Clarke & Mike Wilson. Harper & Row Pubs., Inc., New York. 1964. Grade 7 up.

THE INFINITE RIVER. William H. Amos. Random House. 1970.. Grades 9-12. 269 pages. Informational. The author describes the hydrologic cycle in all its aspects but with emphasis on the biological. The last two chapters deal with the deterioration of the marine and wetlands environments caused by man. Mr. Amos writes with both grace and authority. **

INTERESTING & AUTHENTIC NARRATIVES OF THE MOST REMARKABLE SHIPWRECKS, FIRES, FAMINES, CALAMITIES, PROVIDENTIAL DELIVERANCES, & LAMENTABLE DISASTERS ON THE SEA, IN MOST PARTS OF THE WORLD. R. Thomas, facsimile ed. Books for Libraries, Plainview, NY. 1835.

INVISIBLE HORIZONS:- TRUE MYSTERIES OF THE SEA. Vincent H. Gaddis. Chilton Book Co., Radnor, PA. 1965. Grade 9 up.

INVISIBLE MESSAGES. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York.

ISLANDS IN THE STREAM. Ernest Hemingway. Charles Scribner's Sons, New York. 197).

ISLANDS: THEIR LIVES, LEGENDS, AND LORE. Seon Manley and Robert Manley. Chilton Book Co. 1970. Grades 10-12. 383 pages. Informational/fiction.
This book is a collage of island lore, love, lure, and legend. Perhaps it is for the teacher who would chuck it all and, if vicariously, sail to those remote insular specks that populate the ocean realm. The book is generously illustrated and contains more history than science.**

JACK HOLBORN. Leon Garfield. Pantheon Books, Random House, Inc., Westminster, MD. 1965.
Jack runs away to sea and becomes involved with pirates and slave traders.

JACK NASTYFACE: MEMOIRS OF AN ENGLISH SEAMAN. William Robinson. Naval Institute Press, Arco Pub. Co., New York. 1976.

JAWS, JOKES, & OTHER FUNNY FISH STORIES. Richard O'Brien et al. Pinnacle Books, New York. 1976.

JAYBIRDS GO TO HELL ON FRIDAY. Havilah Babcock. Holt, Rinehart & Winston, Inc., New York. 1964.

THE JINX SHIP. Howard Pease. Doubleday & Co., Inc., Garden City, NY. 1946. Grades 7-11.
Two boys on board a ship bound for Havana try to solve a murder mystery.

JOHN MARR & OTHER SAILORS. Herman Melville. Folcroft Library Editions. Folcroft, PA. 1975.

JONAH'S DREAM: A MEDITATION ON FISHING. Sven Berlin. William Kaufmann, Inc., Atlanta. 1975.

JONATHAN LIVINGSTON SEAGULL. Richard Bach. Macmillan Pub. Co., Inc., New York. 1970.

KILLERS OF THE SEAS. Edward R. Ricciuti. Walker & Co., New York. 1975.
"For the sailor, swimmer, diver, fisherman, and naturalist, here are fascinating yarns and useful facts about dangerous creatures to be found in the waters of the world." *

THE KLABAUTERMANN OF THE NORTHERN SEAS: AN ANALYSIS OF THE PROTECTIVE SPIRIT OF SHIPS AND SAILORS IN THE CONTEXT OF POPULAR BELIEF, CHRISTIAN LEGEND & INDO-EUROPEAN MYTHOLOGY. Reinhard J. Suss. Univ. of California Press, Berkeley.

LAST NINE DAYS OF THE BISMARCK. C. S. Forester. Little, Brown & Co., Waltham, MA. 1959.
World War II British naval history. The war's greatest chase, involving Germany's proudest ship and most of the British fleet.

LEGENDS & SUPERSTITIONS OF THE SEA & OF SAILORS, IN ALL LANDS & AT ALL TIMES. Fletcher S. Bassett. Gale Research Co., Detroit. 1974 (Repr. of 1885 ed.).

LIFE AND DEATH IN A CORAL SEA. Jacques-Yves Cousteau & Philippe Diole. Doubleday & Co., Inc., Garden City, NY. 1971. Grade 8 up.

LIFE AND DEATH OF THE SALT MARSH. John Teal & Mildred Teal. Little, Brown & Co., Waltham, MA. 1969.

LIFE AT THE SEA'S FRONTIERS (Many Worlds of Wildlife Series). Richard Perry. Taplinger Pub. Co., Inc., New York. 1974.

THE LIFE-GIVING SEA. David Ballamy. Crown Pubs., New York. 1975.

LIFE IN THE SEA. Gunnar Thorson. McGraw-Hill Book Co., New York. 1971.

THE LIFE OF SEA ISLANDS. N.J. Berrill and Michael Berrill. McGraw-Hill Book Co., New York. 1969. 231 pages.

LIFE OF THE FISH: HIS MANNERS AND MORALS. Brian Curtis. Peter Smith Pub., Gloucester, MA.

LIFE OF THE OCEAN (Our Living World of Nature Series). N. J. Berrill. McGraw-Hill Book Co., New York. 1966.

LIFE STORY OF THE FISH. Brian Curtis. Dover Pubns. Inc., New York. 1949.

THE LIGHTHOUSES OF THE CHESAPEAKE. Robert DeGast. Johns Hopkins Press, Baltimore. 1973.

LIGHTS AND SHADOWS OF SAILOR LIFE. Joseph G. Clark. Books for Libraries, Inc., Plainview, NY.

LILLY ON DOLPHINS — HUMANS OF THE SEA. John Lilly. Doubleday & Co., Inc., Garden City, NY. 1975.

LIS SAILS THE ATLANTIC. Lis Anderson. Humanities Press, Inc., Atlantic Highlands, NJ.

THE LIVING SEA. Robert Burton et al. G. P. Putnam's Sons, New York. 1976.

LIVING SEA. Jacques-Yves Cousteau & James Dugan. Harper & Row Pubs., Inc., Scranton, PA. 1963.

THE LIVING WATERS: LIFE IN LAKES, RIVERS & SEAS (The Living Earth Series). Gillian Standring and Peter Credland. Doubleday & Co., Inc., Garden City, NY. 1976.

THE LOBSTER: ITS LIFE CYCLE. Herb Taylor. Sterling Publishing, Inc. 1975. Grades 7 and up. 80 pages. Informational.
A detailed account of the life cycle of the lobster. Includes discussion of experiments, research, and attempts to develop commercial aquiculture techniques. Photographic illustration and some detailed diagrams. Index.

THE LOCH NESS MONSTER. Elwood Baumann. Franklin Watts, Inc., Subs. of Grolier, Inc., New York. 1972. Grade 7 up.

LOOKING INSIDE SHIPS THROUGH THE AGES. David Sharp. Rand McNally & Co., Chicago. 1976. Grade 10 up.

THE LOST ONES. Ian Cameron. The Hearst Corp., Avon Books Div., New York. 1968.
Suspenseful tale of young man searching for treasure in the Arctic. Dramatic adventures with Eskimo tribe, killer whales, small boat in open water.

THE LOVE BOATS. Jeraldine Saunders. Drake Pubs., Inc., New York. 1974.

THE LURE OF SUNKEN TREASURE: UNDER THE SEA WITH MARINE ARCHAEOLOGISTS AND TREASURE HUNTERS. Robert F. Marx. David McKay Co., Inc., New York. 1973. Grade 7 up.

MOSS, MALLARDS AND MULES: AND OTHER HUNTING AND FISHING STORIES. Bob Brister. Winchester Press, New York. 1973.

MAN AND DOLPHIN. John Lilly. Pyramid Pubns., Inc., New York. 1972.

MAN AND THE OCEAN (Foundations of Earth Science Series). Brian J. Skinner & Karl K. Turekian. Prentice-Hall, Inc., Englewood Cliffs, NJ. 1973.

MAN AND THE SEA: CLASSIC ACCOUNTS OF MARINE EXPLORATIONS. Bernard L. Gordon. Natural History Press, Dist. by Doubleday & Co., Inc., Garden City, NY. 1972.

MAN REENTERS THE SEA. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Time Mirror Co., New York. 1975.

MARINE ANIMALS: PARTNERSHIPS AND OTHER ASSOCIATIONS. R. V. Gotto. American Elsevier. 1969. Grades 9-12. 96 pages. Informational.
This compact, scholarly, well written book explores the associations, commensalisms, symbioses among marine animals. Too often this subject is dealt with superficially, but Dr. Gotto has produced a stimulating, penetrating report on this fascinating subject. **

MARINE ANIMAL COLLECTORS: HOW CREATURES OF THE SEA CONTRIBUTE TO SCIENCE AND OUR KNOWLEDGE OF MAN. John F. Waters. Hastings House Pubs., Inc., New York. 1969.

MARINE MAMMALS & MAN: THE NAVY'S PORPOISES & SEA LIONS. Forrest Wood. Robert B. Luce, Inc., Dist. by David McKay Co., Inc., New York. 1973.

THE MARINE MAMMALS OF THE NORTHWESTERN COAST OF NORTH AMERICA: TOGETHER WITH AN ACCOUNT OF THE AMERICAN WHALE-FISHERY. Charles Melville Scammon. Dover Publications. 1968. Grades 9-12. Informational/historical.
It was a financial failure when published in 1874, but the few surviving copies are collectors' items. This new edition is a reproduction of the original to which is added an introduction by Victor Scheffer. Useful as a book on marine mammals, it is also an excellent history of the Pacific Northwest. **

MARINE PAINTING. Theodore W. Donaldson. Pitman Publishing Corporation. 1963. Grades 9 and up. 31 pages. Informational.
A soft-cover art book, plentifully illustrated with painting, which gives advice on sketching and painting sea-side subjects. One section discusses tools and equipment, another demonstrates the step-by-step creation of a painting using brayer and palette knife.

THE MARLINSPIKE SAILOR. Hervey Garrett Smith. John DeGraff, Inc., Clinton Corners, NY. 1975.

Crafts and projects based on traditional skills of the sea: knots, splices, whippings, rope ladders, lanyards, fenders, mats, grommets, decorations for chests, bags and fittings. *

MARVELS OF THE DEEP SEA. Glenn Schot. Troubador Press, San Francisco. 1976.

MASTER DIVER & UNDERWATER SPORTSMAN. T. A. Hampton. Arco Pub. Co., New York. 1970.

MEMOIRS OF A BUCCANEER. Louis A. LeGolif. Simon & Schuster, Inc., New York. 1954.

MEMOIRS OF THE LATE CAPTAIN HUGH CROW, OF LIVERPOOL. H. C. Crow. International Scholarly Book Services, Inc., Beaverton, OR.

MEN AGAINST THE SEA. Charles Nordhoff & James Hall. Little, Brown & Co., Waltham, MA.
Account of a struggle to survive at sea in a small craft under severe conditions; authentic, dramatic.

MEN BENEATH THE SEA. Hans Haas. St. Martin's Press, Inc., New York. 1975.

MEN IN THE SEA. Peter Briggs. Simon & Schuster, Inc., New York. 1968. Grade 7 up.

MEN, SHIPS & THE SEA. Alan Villiers, et al., Merle Severy, ed. Available only from National Geographic, Washington, DC. 1973.

MIND IN THE WATERS: A BOOK TO CELEBRATE THE CONSCIOUSNESS OF WHALES & DOLPHINS. Joan McIntyre, ed. Charles Scribner's Sons, Totowa, NJ. 1974.

MONARCH OF DEADMAN BAY. Roger A. Caras. Little, Brown & Co., Waltham, MA. 1969.
Unique treatment of interrelationships between man and nature, man and animal. Kodiak bear is major character of drama set in wilds of the Alaskan Bay.

MONSARRAT AT SEA. Nicholas Monsarrat. William Morrow & Co., Inc., West Caldwell, NJ. 1976.

THE MONSTERS OF LOCH NESS. Roy P. Mackal. Swallow Press, Chicago. 1976.

MOONCUSSERS OF CAPE COD. Henry C. Kittredge. Shoe String Press, Inc., Hamden, CT. 1971 (repr. of 1937 ed.).

MUSIC OF THE WATERS. Laura Smith. Gale Research Co., Detroit. 1969 (repr. of 1888 ed.).

MUST THE SEAS DIE? Colin Moorcraft. Gambit, Inc., Boston. 1973.

MUTINY ON THE BOUNTY. Charles Nordhoff & James Hall. Little, Brown & Co., Waltham, MA. 1932.
Classic account of Captain Bligh's tyranny and the eventual defiance of his crew; spiced with tales of South Sea beauties, heroism, danger. Historically accurate.

MYSTERIES AND ADVENTURES ALONG THE ATLANTIC COAST. Edward R. Snow. Books for Libraries, Inc., Plainview, NY. 1948.

MYSTERIES BENEATH THE SEA. William R. Corliss. Apollo Editions, Binghamton, NY. 1975.

MYSTERIOUS ISLAND. Jules Verne. Charles Scribner's Sons, Totowa, NJ. 1918.
Appealing advanture of 5 escapees from Civil War P.O.W. camp who live on an uncharted island for five years.

MYSTERIOUS SEA. Ferdinand Lane. Books for Libraries, Plainview, NY. 1947.

NANAVILINS: A MUSTER OF SEA-SONGS. Rex Clements. Folcroft Library Editions, Folcroft, PA. 1976.

THE NARRATIVE OF ROBERT ADAMS, AN AMERICAN SAILOR, WHO WAS WRECKED ON THE WESTERN COAST OF AFRICA IN THE YEAR 1810. Robert Adams. Scholarly Press, St. Claire Shores, MI. 1976.

NARRATIVE OF THE ADVENTURES & SUFFERINGS OF SAMUEL PATTERSON. Samuel Patterson. Ye Galleon Press, Fairfield, WI. 1967.

NAUTILUS 90 NORTH. W. R. Anderson & Clay Blair. Collins & World, Cleveland, OH. 1959.
Mixture of history and adventure. First undersea crossing of North Pole. Includes details, suspense, tension; explores scientific, military implications of the voyage.

NAVAL SONGS: A COLLECTION OF ORIGINAL, SELECTED, TRADITIONAL SEA SONGS. S. B. Luce. Longwood Press, Kennebunkport, ME. 1976.

NAVIGATION (Library of Boating Series). Silver Time-Life Books, Div. of Time, Inc., Dist. by Little, Brown & Co., Boston. 1975.

NAVIGATION: FINDING YOUR WAY ON SEA & LAND. Tony Gibbs. Franklin Watts, Inc., New York. 1975. Grade 8 up.

THE NEW OCEAN EXPLORERS: INTO THE SEA IN THE SPACE AGE. Howard Pennington. Little, Brown & Co., Waltham, MA. 1972. Grade 7 up.

A NIGHT TO REMEMBER. Walter Lord. Holt, Rinehart & Winston, Inc., New York. 1955. Grade 9 up. And Bantam Books, Inc., Des Plaines, IL. 1955. Grades 6-12.
Suspenseful story of the Titanic: gallantry, bravery, foolishness, cowardice.

THE NORTH SHIPS: THE LIFE OF A TRAWLERMAN. Steven Piper. David & Charles, Inc., North Pomfret, VT. 1974.

OASIS IN SPACE. Jacques-Yves Cousteau. Harry N. Abrams, Inc. 1972. High School. 144 pages. Informational.
A beautiful book by someone who knows and loves the sea. Fabulous color photographs are complemented by an informative text. Emphasizes reverence for the ocean and its life forms.

THE OCEAN. Scientific American. W. H. Freeman & Co. 1969. Grades 9-12. 160 pages. Informational.
The ten articles appearing in the single-topic edition of the Scientific American (September 1969) reappear in this book. Each of the articles was written by a recognized authority. The articles are on such subjects as the history of man's concern with the ocean, sea-floor spreading, air-sea interactions, marine engineering, etc. The final article deals with legal problems in oceanography. There are 103 illustrations, 64 with color. **

OCEAN LIFE. Martin and Heather Angel. Octopus Books. 1974. High School to Adult. 70 pages. Informational.
Spectacular color photography accompanies the text. Gives forms of life at various ocean depths, with special discussion of whales and giant fishes. Chapters on coral reefs and luminescent fish are particularly interesting.

OCEANOGRAPHERS IN ACTION (Science in Action). Erik Bergaust & William Foss. G. P. Putnam's Sons, New York. 1968. Grade 7 up.

OCEANOGRAPHY (Exploring Earth Science Program Series). Walter A. Thurber, et al. Allyn & Bacon, Inc., Rockleigh, NJ. 1976. Grades 7-12.

OCEANOGRAPHY (First Books). Jerome Williams. Franklin Watts, Inc., Subs. of Grolier, Inc., New York. 1972. Grades 7-12.

THE OCEANS IN TOMORROW'S WORLD: HOW CAN WE USE AND PROTECT THEM? (Tomorrow's World Series). David R. Michelsohn & Science Book Associates Editors. Julian Messner, Inc., Dist. by Simon & Schuster, Inc., New York. 1972. Grade 7 up.

OF MEN AND MARSHES. Paul L. Errington. The Iowa State University Press. 1957. Grades 8-12. 150 pages. Informational/biographical.
This is a book of memories and philosophy by a man who rose from fur trapper to college professor. It describes marshes all over America, but dwells on the glaciated prairie marshes of the Dakotas. The 23 illustrations are excellent but do not have captions. There is no index. The author's knowledge of marsh ecology makes this a very worthwhile book. **

THE OLD MAN AND THE SEA. Ernest Hemingway. Charles Scribner's Sons, New York. 1952.

Classic that explores the mysteries of the sea, the meeting of youth and old age, the glories of a solitary purposeful life, the battle for recognition, and the struggle of the human spirit for survival.

ON EVERY SIDE THE SEA. Claiborne (no first name). W. W. Norton & Co., Inc., New York. 1975.

ONE HUNDRED EGGS OF COLUMBUS. Gerhard Niese. Astro-Computing Books, Washington, DC. Grades 8-12.

ONE WHALING FAMILY. Harold Williams. Houghton Mifflin Co., Boston. 1964. Grades 7-12.

ORPHANS OF THE WIND. Erik Christian Haugaard. Houghton Mifflin Co., New York. 1966. Grades 7-12.

OUTDOOR OBSERVER: HOW TO SEE, HEAR AND INTERPRET IN THE NATURAL WORLD (Outdoor Life Skill Books). Charles Elliott. E. P. Dutton and Co., Inc., New York. 1970.

OUTER AND INNER SPACE. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1975.

THE OUTERMOST HOUSE. Henry Beston. Viking Press, Inc., New York. 1976 (1928).

THE OXFORD COMPANION TO SHIPS AND THE SEA. P. K. Kemp. Oxford Univ. Press, Inc., Fair Lawn, NJ. 1976.

OYSTERMEN OF THE CHESAPEAKE. Robert DeCast. International Marine Publishing Co., Camden, ME. 1970.

PAINTERS BEFORE THE SEA. Ediciones Poligrafa. Barcelona.

Plates of Spanish sea paintings. Interesting collection, presented in Spanish, English, German and French.

PAINTING SEA AND SKY. Jean Khanbegian. Pitman Publishing Co. 1967. Grades 7-12. 32 pages. Instructional.
This booklet gives the aspiring artist an authoritative introduction to basic techniques and methods in painting sea and sky. Each page gives verbal instructions and artistic examples.

THE PEARL. John Steinbeck. Viking Press, New York. 1947.

Poor, superstitious Mexican finds priceless pearl. With it he wants to buy respect and health for his family, while his wife, thinking the pearl is evil, wants him to get rid of it. Many conflicts develop as others try to steal his pearl.

PETER FREUCHEN'S BOOK OF THE SEVEN SEAS. Peter Freuchen and David Loth. Simon and Schuster, Inc., New York. 1957.

PHANTOMS OF THE SEA: LEGENDS, CUSTOMS AND SUPERSTITIONS. Raymond L. Brown. Taplinger Pub. Co., Inc., New York.

PHARAOHS OF THE SEA. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1975.

PICTURES OF EASTERN SEAS. A. G. Course. Transatlantic Arts, Inc., Levittown, NY.

PIRATES. Daniel Defoe and Harry Knill. Bellerophon Books, San Francisco. 1975.

PIRATES OF THE EASTERN SEAS, 1618-1723: A LURID PAGE OF HISTORY. Charles Grey. Kennikat Press, Corp., Subs. of Taylor Publishing Co., Port Washington, NY. 1971 (1933).

PIRATES OF THE NEW ENGLAND COAST. George F. Dow and John H. Edmonds. Argosy-Antiquarian Ltd., New York. 1968.

PIRATES OF THE SPANISH MAIN. Douglas Botting. Penguin Books, Inc., Baltimore. 1974.

PIRATE'S OWN BOOK OR AUTHENTIC NARRATIVES OF THE LIVES, EXPLOITS, AND EXECUTIONS OF THE MOST CELEBRATED SEA ROBBERS. Augustus M. Kelley Pubs., Clifton, NJ. 1924 (repr.).

PIRATES WHO'S WHO. Philip Gosse. Burt Franklin Pub., Dist. by Lenox Hill Pub. and Dist. Corp., New York. 1968 (1924).

PITCAIRN: CHILDREN OF MUTINY. Ian M. Ball. Little, Brown & Co., Waltham, MA. 1973.

THE POND. Robert Murphy. The Hearst Corp., Avon Book Div., New York. 1964.
A nature story concerned with the human condition.

POSTED MISSING. Alan Villiers. Charles Scribner's Sons, Totowa, NJ. 1974.

PREPARE TO DIVE: THE STORY OF MAN UNDERSEA. Jack Coggins. Dodd, Mead & Co., Inc., New York. 1971. Grade 7 up.

PRIVATEERING AND PIRACY IN THE COLONIAL PERIOD. John F. Hameson, ed. Thomas Kelley, East Orange, NJ. 1923.

PRIVATEERS OF SEVENTY-SIX. Fred J. Cook. Bobbs-Merrill Co., Inc., Subs. of Howard W. Sams & Co., Indianapolis. 1976. Grade 10 up.

PROTECTED OCEAN: HOW TO KEEP THE SEAS ALIVE (New Conservation Series). Wesley Marx. Coward, McCann & Geoghegan, Inc., New York. 1972. Grade 7 up.

PROVINCES OF THE SEA. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1975.

QUEST FOR FOOD. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1973.

THE RAGE TO SURVIVE. Jacques Vignes. William Morrow & Co., Inc., West Caldwell, NJ. 1976.

RAIN ON THE WIND. Walter Macken. Macmillan Pub. Co., Inc., New York. 1950.
The binding relationship between man and the sea is studied. The question is posed to some Irish townspeople of whether to continue to endure their poverty and hardships or to look to the sea for escape.

RAISE THE TITANIC. Clive Cussler. Viking Press, Inc., New York. 1976.

REAL SAILOR-SONGS. John Ashton, ed. Arno Press, New York.

RETURN TO PARADISE. James Michener. Random House, Inc., Westminster, MD. 1951.

RICHES OF THE SEA. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1975.

ROBERT POTTER - FOUNDER OF THE TEXAS NAVY. Ernest G. Fischer. Pelican Publishing Co. 1976. High School to Adult. 232 pages. Biography.
A well-researched and documented account of the founder of the Texas Navy, including exploits precipitated by a marcurial temperament. Names famous to American history march through the pages of this fast-moving history of the founding of Texas.

SAFETY AND SURVIVAL AT SEA. E. C. and Kenneth Lee. W. W. Norton and Co., Inc., New York. 1972.

SAIL HO. James and P. R. Stephensen. Phillips, Inc., New York. 1958.

SAILING SOLO TO AMERICA. Frank Page. Quadrangle, The New York Times Co., Harper and Row Pubs., Inc., Scranton, PA. 1973.

SAILOR IN ENGLISH FICTION AND DRAMA (1550-1800). Harold F. Watson. AMS Press, Inc., New York. 1931.

A SAILOR'S GARLAND. John Masefield. Norwood Editions, Norwood, PA. 1975.

A SAILOR'S SONGBAG: AN AMERICAN REBEL IN AN ENGLISH PRISON (1777-79). George G. Carey, ed. Univ. of Massachusetts Press, Amherst. 1976.

THE SALT-WATER AQUARIUM IN THE HOME. Robert P. L. Straughan. A. S. Barnes and Co. 1970. Grades 7-12. 360 pages. Informational.
This twice-revised book contains more than 300 photographs and is the most authoritative work dealing with the difficult art of maintaining a salt-water aquarium. The book is lavish and expensive, but its binding is flimsy. **

THE SARGASSO SEA. Francine Jacobs. Illustrated by Jean Zallinger. William Morrow and Co. 1975. Grades 7 and up. 96 pages. Informational.
Discusses the location, history, characteristics, marine life, and importance of the unique area of the North Atlantic that has spawned numerous unsolved mysteries. Of all the ocean waters, the Sargasso contains the least amount of plankton and so is called an ocean desert. Contains accurate drawings with style. Despite the deceptively large print, this book is suitable for middle and high school level students.

SCIENCE-HOBBY BOOK OF SHELL COLLECTING (rev. ed.). Miriam Gilbert. Lerner Pubns. Co., Minneapolis. 1968. Grades 5-10.

SCIENCE PUZZLES. Martin Gardner. Viking Press, Inc., New York. 1960. Grade 7 up.

THE SEA. Leonard Engel, and the editors of Life, Time, Inc., New York. 1969. 190 pp.
This book is an engaging and attractive presentation of the marine environment. The illustrations are magnificent and text is substantial. The photographs of sharks and marine mammals are excellent. The drawings of underwater landscapes are very well done. *

THE SEA. Robert C. Miller. Random House, New York. 1966. 315 pp.
A well illustrated, general reference of marine topics, this book treats most aspects of marine science. Some of the material is dated but on the whole it is still a good book. *

THE SEA ABOVE THEM. John Wingate. St. Martin's Press, Inc., New York. 1976.

SEA ADVENTURES. Graeme Cook. St. Martin's Press, Inc., New York. 1975.

SEA AGAINST HUNGER. C. P. Idyll. Thomas Y. Crowell Co., New York. 1970.

SEA AND SHORE. Clarence J. Hylander. Macmillan Pub. Co., Inc., Riverside, NJ. 1950. Grade 7 up.

THE SEA AROUND US. Rachel Carson. Signet Books (Imprint of New American Libraries, New York). 1961.

THE SEA-BEACH AT EBB-TIDE: A GUIDE TO THE STUDY OF THE SEAWEEDS AND THE LOWER ANIMAL LIFE FOUND BETWEEN TIDE-MARKS. August Foote Arnold, Dover Publications, Inc. 1968. Grades 7-12. 490 pages. Informational.
Dover has faithfully reproduced this 1901 classic. Arnold's book is as useful now as ever. It describes the natural history of hundreds of North American seashore life forms. Its taxonomy is obsolete, but this matters little. There are 600 illustrations and an index.**

THE SEA CHEST: A YACHTSMAN'S READER. Critchell Mimington, ed. W. W. Norton Co., Inc., New York. 1975.

THE SEA COOK: OR HOW TO HAVE SUPERB MEALS AFLOAT WITHOUT BECOMING A GALLEY SLAVE. Sallie Townsend and Virginia Ericson. Funk and Wagnalls Co., Dist. by Thomas Y. Crowell Co., New York. 1977.

SEA FARMERS. John F. Waters. Hastings House Pubs., Inc., New York. 1970. Grades 6-9.

SEA FICTION GUIDE. Myron J. Smith and Robert C. Weller. Scarecrow Press, Inc., Subs. of Grolier Educ. Corp., Metuchen, NJ. 1976.

THE SEA HAS WINGS (Sunrise Books). Franklin Russell. E. P. Dutton and Co., Inc., New York. 1973.

SEA KILLERS. Jim Wyckoff. Zebra. 1975.

THE SEA MINERS. John Foster. Hastings House Pubs., Inc., New York. 1975. Grade 7 up.

SEA OF CORTEZ: A LEISURELY JOURNAL OF TRAVEL AND RESEARCH. John Steinbeck and Edward F. Ricketts. (repr. of 1941). Paul P. Appel Pub., Mamaroneck, NY.

A SEA OF LEGENDS: INSPIRATION FROM THE SEA. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1975.

SEA OF TREASURE. Harry E. Riesenberg. Frederick Fell, Inc., New York. 1966. Grade 7 up.

A SEA OF TROUBLES. J. J. McCoy Seabury Press, New York. 192 pp.
Examines the present-day threats to the vast resources of the world's oceans and the political and economic conflicts involved in trying to save the sea from irreversible damage. *

THE SEA SERPENT JOURNAL: HUGH MC CULLOCH GREGORY'S VOYAGE AROUND THE WORLD IN A CLIPPER SHIP, 1854-1855. Hugh M. Gregory. Robert H. Burgess, ed. Univ. Press of Virginia, Charlottesville. 1975.

SEA, SHIPS AND SAILORS. William Cole, ed. Viking Press, New York. 1967.

SEA SIEGE. Andre Norton. Harcourt Brace Jovanovich, Inc., New York. 1957.
Shows effects of an atomic blast on an isolated island. Presents ecological interrelationships and discusses changes in environment and lifestyles.

SEA TREASURE. Kathleen Yerger Johnstone. Houghton Mifflin, Boston. 1957. Grades 7-12.

THE SEA WOLF. Jack London. Macmillan Pub. Co., Inc., Riverside, NJ. 1904.
Wild adventure on the seas. Strong, compelling characters.

A SEAL CALLED ANDRE. Harry Goodridge and Lew Dietz. Warner Books, Inc., New York. 1976.

SEALS OF THE WORLD. Gavin Maxwell. Houghton Mifflin Co. 1967. Grades 9-12. 153 pages. Informational.
Undoubtedly, this is the most complete and authoritative popular book on seals. No previous popular book treats all of the 32 species of seals, sea-lions, and walruses. The book is well illustrated with drawings and photographs.**

SEARCHERS OF THE SEA: PIONEERS IN OCEANOGRAPHY. Charles M. Daugherty. Viking Press Inc., New York. 1961.

THE SEAS: OUR KNOWLEDGE OF LIFE IN THE SEA AND HOW IT IS GAINED. F. S. Russell and C. M. Yonge. Frederick Warne and Co., Ltd. 1963. Grades 7-12. 376 pages. Informational.
This venerable work first appeared in 1928. This third edition retains the basic approach of the original edition. Sea life is described in a variety of situations: the seashore, the sea bottom, coral reefs, etc. This book tends to concern itself with marine life common to British waters. There are chapters on physical oceanography and on the marine fisheries industries, but they are somewhat dated. The book contains 127 plates, 64 in color, and numerous text drawings. **

SEASHELLS OF THE WORLD WITH VALUES. A. Gordon Melvin. Charles E. Tuttle Co., Inc., Rutland, VT. 1966. Grade 9 up.

SECRET ISLANDS. Franklin Russell. W. W. Norton and Co., Inc., New York. 1966.

THE SECRET LIVES OF FISHES. Bernard L. Gordon. Grosset and Dunlap, Inc., New York. 1976.

SECRET UNDER THE CARIBBEAN. Holt, Rinehart and Winston, Inc., New York. 1964.
Young hero encounters thieves who try to steal a sunken Spanish sloop containing treasure.

SECRETS OF THE DEEP. Stephen Spotte. Charles Scribner's Sons, New York. 1976.

SECRETS OF THE DOLPHIN. Helen Kay. Macmillan Pub. Co., Inc., Riverside, NJ. 1964.
Grade 7 up.

SECRETS OF THE SEAS. W. W. Norton & Co., Inc., New York. 1972.

SELECTED ALASKA HUNTING AND FISHING TALES, VOL. 3. Alaska Northwest Pub. Co., Edmonds, AK. 1974.

SHELL BOOK (rev. ed.). Charles T. Brandford Co., Newton Center, MA. 1951. Grade 7 up.

SHELL: FIVE HUNDRED MILLION YEARS OF INSPIRED DESIGN. Hugh and Marguerite Stix. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1968.

SHELLCRAFT INSTRUCTION. Marjorie and Frank Pelose. Great Outdoors Pub. Co., St. Petersburg, FL.

THE SHIP THAT STOOD STILL. Leslie Reade. Naval Institute Press, Dist. by Arco Pub. Co., New York.

SHIPBUILDERS: FROM CLIPPER SHIPS TO SUBMARINES TO HOVERCRAFT. D. S. Halacy, Jr. J. B. Lippincott Co., Philadelphia. 1966. Grades 6-10.

SHIPCARVERS OF NORTH AMERICA. M. V. Brewington. Peter Smith Pub., Inc., Gloucester, MA.

SHIP'S CAPTAIN. Eric Leyland. Sportshelf and Soccer Associates, New Rochelle, NY.

SHIPS AND SHIPWRECKS. Hugh Edwards. Quadrangle, The New York Times Co., Dist. by Harper and Row, Scranton, PA. 1975.

SHIPS THROUGH THE AGES. Douglas Lobley. Derbibooks, Inc., Dist. by Books Sales, Inc., Secaucus, NJ. 1975.

SHIPWRECKS AND ARCHAEOLOGY: THE UNHARVESTED SEA. Peter Throckmorton. Atlantic Monthly Press, Little, Brown & Co., Waltham, MA. 1970.

SHIPWRECKS IN PARADISE. Jim Gibbs. Superior Pub. Co., Seattle. 1976.

SILENT WORLD. Jacques-Yves Cousteau and Frederic Dumas. Harper and Row Pubs., Inc., Scranton, PA. 1965. Grade 9 up.

An adventurous treatment of history. An exploration in the Mediterranean leads to the invention of the aqua-lung.

SMALL BOAT ADVENTURES. Michael Brown. David White Co., New York. 1968. Grade 6 up.

SMARTER THAN MAN? INTELLIGENCE IN WHALES, DOLPHINS AND HUMANS. Kar-Erik Fichtelius and Sverre Sjolander, tr. by Thomas Teal. Pantheon Books, Div. of Random House, Westminster, MD. 1972.

SOME FAMOUS SEA FIGHTS. Fitzhugh and Holloway Frost. Books for Libraries, Plainview, NY. (repr. 1927).

SOME SHIP DISASTERS AND THEIR CAUSES (Maritime Library Series). K. C. Barnaby. A. S. Barnes and Co., Inc., Cranbury, NJ. 1970.

SOMETHING RICH AND STRANGE. Robert Schroeder. Harper and Row Pubs., Inc., Scranton, PA. 1965.

SONGS OF THE SAILOR AND LUMBERMAN. William M. Doerflinger. Macmillan Pub. Co., Inc., Riverside, NJ. 1972.

SONGS OF THE SEA. Robert Frothingham, ed. Books for Libraries, Plainview, NY. 1924.

One of many collections of poetry and song lyrics about man-sea relationships.

THE SOUTH POLE: AN ACCOUNT OF THE NORWEGIAN ANTARCTIC EXPEDITION IN THE "FRAM", 1910-1912. Ronald Amundsen. Barnes and Noble, Inc., Div. of Harper and Row Pubs., Inc., Scranton, PA. 1975.

SOUTHERN SEASHORES: A WORLD OF ANIMALS AND PLANTS. William M. Stephens. Holiday House. 1968. Grades 7-12. 192 pages. Informational.
In this book the author describes the plants and animals in a variety of seashore habitats from the Carolinas to the Gulf Coast and the Bahamas. The author uses scientific names as well as common names. There are about 75 black and white photographs, a 30-item bibliography, and a good index. **

THE SOUTHERN SWAMPS OF AMERICA. James Ralph Johnson. David McKay Co, Inc. 1970. Grades 7-10. 152 pages. Informational.
The author conducts the reader on a guided tour of Southern swamps. He describes the ecology of the swamp plants and animals while not neglecting man's influence. The book is illustrated. There are over 12 pages of bibliography and an index. **

SPARE TIME AT SEA. Ronald Hope, 2nd ed. Beekman Pubs, Inc., New York. 1974.

STALKING THE BLUE-EYED SCALLOP. Euell Gibbons. David McKay Co., Inc., New York. 1964.

STAYING ALIVE: ONE HUNDRED SEVENTEEN DAYS ADRIFT. Maurice and Maralyn Bailey. Ballantine Books, Inc., Div. of Random House, Inc., Westminster, MD. 1975.

STORY OF OCEANOGRAPHY. Robert Boyer. Harvey House, Inc., Pubs., c/o E. M. Hale and Co., Eau Claire, WI. 1975.

THE STORY OF THE PACIFIC: EXPLORERS OF THE EARTH'S MIGHTIEST OCEAN. Howard Rabling. W. W. Norton and Co., Inc., New York. 1965. 191 pp. Grades 7-12.

This book is an absorbing, well written history of the Pacific from Magellan to the mid-nineteenth century. A capable writer, Australian born Howard Rabling spent 30 years with Socony Mobil Oil Company's Pacific Division.

THE STORY OF THE RICH UNDERWATER WORLD. (Orig. title: Earth's Last Frontier: The Rich and Strange World of the Sea). Ruth Brindze. Harcourt Brace Jovanovich, Inc., New York. 1971. Grade 12 up.

STORY OF THE TITANIC AS TOLD BY ITS SURVIVORS. Jack Winocour, ed. Dover Pubns., Inc., New York. 1960.

STREAMS, LAKES, PONDS. Robert E. Coker. Harper & Row. 1968. Grades 9-12. 327 pages. Informational.
In this classical book, the late Dr. Coker brought together for the layman a wealth of material on the subject of freshwater ecology. Although it was written as a popular book, Streams, Lakes, Ponds has been used as an introductory text in many high school and college courses in limnology. **

SURTSEY: THE NEW ISLAND IN THE NORTH ATLANTIC. Sigurdur Thorarinsson. Translated by Solvi Eysteinsson. The Viking Press. 1967. Grades 7-12. 54 pages. Informational.
The book is a chronicle of the events concerning the birth of the island, the landing by man on the island, and the appearance of plants and animals there. The book contains many spectacular color photographs showing the violent birth of the new volcanic island. **

SURVIVAL. (Orig. title: Shakleton's Voyage). Donald B. Chidsey. Universal Pub. and Dist. Corp., c/o Award Books, Hauppauge, NY. 1972.

SURVIVAL AFLOAT. Don Biggs. John Day Co., Inc., New York. 1964.

SURVIVE THE SAVAGE SEA. Dougal Robertson. Bantam Books, Inc., Des Plaines, IL. 1974.

TALES OF PIRATES (Pacemaker True Adventures Series). Edward G. Jerrome. Fearon Pubs., Div. of Putnam Pub., Belmont, CA. 1973. Grades 7-12.

TALL SHIPS. Philip McCutchan. Little, Brown & Co., Waltham, MA. 1976.

TAYLORS GUT IN THE DELAWARE STATE. Dudley Cammett Lunt. Alfred A. Knoff. 1968. Grades 7-12. 303 pages. Informational.
This book concerns the wild life and the seasonal changes occurring in and around Taylors Gut, a tidal inlet along the shore of the Delaware Bay. The author also tells of his experiences on excursions to other features of the Delaware coastal country. Art work is by Alfred John Florio. **

TEEN-AGE UNDERWATER ADVENTURE. Thomas, ed. Lantern Press, Inc., Pubs., Mt. Vernon, NY. 1962. Grades 6-10.

TEN FATHOMS DEEP. Arthur Catherall. Criterion Books Inc., New York. 1968.

Set in Singapore, an adventure of a 17-year-old tug skipper who leads his crew against those stopping him from salvaging a sunken ship.

TEN TOP STORIES. D. A. Sohn, ed. Bantam Books, Inc., New York. 1975. (See "Polar Night" by Noah Burke, and "A Psychological Shipwreck" by Ambrose Bierce.)

THE TERRIBLE VOYAGE. Edwin P. Hoyt. Pinnacle Books, New York. 1976.

THINKING DOLPHINS, TALKING WHALES. Frank Robson. A. H. and A. W. Reed Books, Dist. by Charles E. Tuttle, Inc., Rutland, VT. 1977.

THIRTY CENTURIES UNDER THE SEA. Frederic Dumas. Crown Pubs., Inc., New York. 1976.

THREE ADVENTURES: GALAPAGOS, TITICACA, THE BLUE HOLES. Jacques-Yves Cousteau and Phillippe Diole. Doubleday and Co., Inc., Garden City, NY. 1973.

THROUGH THE SOUTH SEAS WITH JACK LONDON. Martin Johnson. Wolf House Books, Grand Rapids, MI. 1976.

TIDES OF CHANGE. Elizabeth M. and David Reisger, eds. Mason and Charter, New York. 1975.

TITANIC (Incredible Series). Richard A. Boning. Dexter and Westbrook Ltd., Baldwin, NY. 1974. Grades 5-11.

TO SEA IN HASTE. Roland T. Carr. Acropolis Books, Washington, DC. 1975.

TRAIL BLAZERS OF THE SEAS. Jean Lee Latham. Houghton Mifflin Co., Boston. 1956. Grades 7-12.

TRAMPS AND LADIES. James Bisset and P. R. Stephensen. S. G. Phillips, Inc., New York. 1959.

TRAVEL BY SEA (Junior Ref. Series). Robert J. Hoare, R. J. Unstead, ed. Dufour Editions, Inc., Chester Springs, PA. 1965. Grades 7-10.

TRAVELLING BY SEA IN THE NINETEENTH CENTURY. Basil Greenhill and Ann Giffard. Hastings House Pubs., Inc., New York. 1974.

TREASURE AT TWENTY FATHOMS. Patrick O'Connor. E. M. Hale and Co., Eau Claire, WI. 1961.
Chuck conquers his self-doubts and fear of failure when he becomes a deep-sea diver.

TREASURE GALLEONS: CLUES TO MILLIONS IN SUNKEN GOLD AND TREASURE. David L. Horner. Dodd, Mead & Co., Inc., New York. 1971.

TREASURE ISLAND. Robert L. Stevenson. Winston Press, Inc., Minneapolis. 1952.
An adventure which includes pirates, mutiny, and a search for hidden treasure.

TRELAWN'S STRANGE RELATIONS. Anne Hill. Richard West, Philadelphia. 1956.

TRIMARAN AGAINST THE TRADES. Jean Cole. John Degraff, Clinton Corners, NY. 188 pp.
A modern family of five, forced to leave their home in Kenya, Africa, chose to build a boat and sail 12,000 miles to settle in New Zealand. A true saga of human ingenuity and family unity.

TRUE BOOK ABOUT THE SEAS. Maurice Burton. Sportshelf and Soccer Assoc., New Rochelle, NY. Grade 7 up.

TWENTY THOUSAND LEAGUES UNDER THE SEA. Jules Verne. Scott, Foresman and Co., Glenview, IL. 1955.

TWO YEARS BEFORE THE MAST. Richard Henry Dana. Peter Wolff Books, Barrington, IL. 1840.

UNDER THE SEA: A TREASURY OF GREAT WRITING ABOUT THE OCEAN DEPTHS. Gardner Soule, ed. Meredith Press, Des Moines, IA. 1968. 347 pp. Grades 9-12.

This book is an anthology of writings on marine topics ranging from science to history. It contains articles by Ewing, Cousteau, Piccard, Bascom, and others. Unfortunately it also contains several dilettantish articles by some of oceanography's camp followers. Even so, the book will enhance the browsing in a high school library. *

UNDER THE SEA WIND: A NATURALIST'S PICTURE OF OCEAN LIFE. Rachel L. Carson. Oxford Univ. Press, New York. 1952.

UNDERSEA TREASURES. Nat'l Geog. Society, Washington, DC. 1974.

UNDERSEA VEHICLES AND HABITATS: THE PEACEFUL USES OF THE OCEAN. Frank Ross, Jr. Thomas Y. Crowell Co., New York. 1970. Grades 5-8.

UNDERWATER MAN. Joe MacInnis. Dodd, Mead & Co., Inc., New York. 1975.

THE UNDERWATER WORLD. Gwynne Vevers. St. Martin's Press, Inc., New York. 1972.

USES OF THE SEAS. Edmund A. Buillion, ed. Prentice-Hall, Inc., Englewood Cliffs, NJ. 1968.

VALLA: THE STORY OF A SEA LION. Dean Jennings. World Publishing Co., N.Y. 1969. 172 pages.

VANESBURG GIANTS: THE HISTORY, BIOLOGY AND FATE OF THE GREAT WHALES. David O. Hill. Rare Animal Relief Effort, New York. 1975.

THE VOYAGE OF DISCOVERY TO THE NORTH PACIFIC OCEAN. William R. Broughton. DeCapo Press, Inc., New York. 1967.

THE VOYAGE OF THE BEAGLE. Charles Darwin. Edited by Leonard Engel. Doubleday & Co. 1962. Grades 9-12. 524 pages. Biographical/informational.
In this book an illustrious scientist recounts his adventures on one of oceanography's most profound voyages. The book has great value to the science historian, but the layman may be left with a craving for an edition edited for brevity. There are text drawings and an index. **

THE VOYAGES OF CAPTAIN COOK. Rex and Thea Rienits. The Hamlyn Pub. Group Ltd., London. 1968. 158 pp. Grades 7-12.

British historians Rex and Thea Rienits have produced a very handsome and authoritative book. They visited many of the islands discovered by Cook. Many of the book's 200 figures are color reproductions of oil paintings by the artists who accompanied Cook.

WANDER-SHIPS (Folklore Ser.). Wilbur Bassett. Norwood Ed., Norwood, PA. 1917.

WATER AND LIFE. Lorus Milne and Margery Milne. Drawings by Kenneth Gosner. Atheneum. 1967. Grades 9-12. 275 pages. Informational.
The authors describe how life originated in water and how all life is sustained by water. The book provides insight into the growing problem of water pollution. The text is well written and is very informative. There is an index and an extensive section of chapter notes. **

WATER AS A PRODUCTIVE ENVIRONMENT. C. F. Hickling. St. Martin's Press, Inc., New York. 1975.

THE WATER CRISIS. Frank E. Moss. Praeger Publishers. 1967. 305 pages. Grades 9-12. Informational.
The Senator from Utah has written a definitive analysis of problems centering around the use and misuse of our rivers, lakes, and coastal waters. The book, now in its third printing, has been well received by authorities in the field. Former Illinois Senator Paul Douglas wrote the foreword. **

WATER GAMES. Hope M. Smith. Ronald Press Co., New York. 1962.

WATER IN THE SERVICE OF MAN. H. R. Vallentine. Penguin Books. 1967 Grades 9-12. 224 pages. Informational.
Here is a civil engineer's view of water as an essential factor in human life. The value of this book is that it explains several complex physical concepts such as viscosity, drag force, and the Bernoulli equation in a language that most high school students can understand. **

WATER: THE MIRROR OF SCIENCE. Kenneth S. Davis and John Arthur Day. Doubleday Anchor Books. 1961. Grades 9-12. 195 pages. Informational.
The authors delve into an analysis of the remarkable physical, chemical, and biological properties of water. They tell how the scientific investigations of water paralleled the emergence of modern physics, chemistry, and biology. There are 22 illustrations and an index.**

THE WAY OF A SHIP. Alan Villiers. Charles Scribner's Sons, Totowa, NJ. 1975.

A WET BUTT AND A HUNGRY GUT. Elwood A. Curtis. John F. Blair Pub., Winston-Salem, NC. 1974.

A WHALE FOR THE KILLING. Farley Mowatt. Penguin Books, New York. 1973.

WHAT DO WE DO FOR LIFEBOATS WHEN THE SHIP GOES DOWN. MY. Harper and Row Pubs., Inc., Scranton, PA. 1976.

WHEEL'S KICK AND THE WIND'S SONG. A. G. Course. Augustus M. Kelley Pubs., Clifton, NJ. 1968.

WHEN PIRATES RULED THE WAVES. Paul Harris. Tab Books, Blue Ridge Summit, PA. 1968.

WILD LEGACY: CALIFORNIA HUNTING AND FISHING TALES. V. Audrey Neasham. Howell North Books, Berkeley, CA. 1973.

WINDOW IN THE SEA. Jacques-Yves Cousteau. Harry N. Abrams, Inc., Subs. of Times Mirror Co., New York. 1973.

WONDROUS WORLD OF FISHES. National Geographic Society. 1969. Grades 7-12. 374 pages. Informational.
This book is a collection of 20 or so articles from the pages of the National Geographic Magazine. It contains 512 illustrations. It makes reference to about 375 species of fresh and salt water fishes. The book is enlarged over its previous (1965) edition. **

THE WORLD BENEATH THE SEA (The World of Nature Series). Menico Torchio. Crown Pubs., Inc., New York. 1973.

WORLD BENEATH THE SEA. James Dugan and Nat'l Geog. Society, Washington, DC. 1973.

WORLD WITHOUT SUN. Jacques-Yves Cousteau, James Dugan, ed. Harper and Row, New York. 1964. Grades 7-12. 205 pp.
Written in diary-like fashion, the book describes the experiences of five men who lived and worked on the floor of the Red Sea aboard Jacques Cousteau's Conshelf Two. The book is well illustrated with about 200 photographs, many of which are in color. *

YANKEE SKIPPERS TO THE RESCUE. Felix Riesenberg. Books for Libraries, Inc., Plainview, NY. 1940.

YANKEES UNDER SAIL. Richard Heckman, ed. Yankee, Inc., Dublin, NH. 1968.

YEAR OF THE WHALE. Victor B. Scheffer. Charles Scribner's Sons, New York. 1969.

YEAR OF THE WHALE POEMS. George Mackay Brown. Chatto & Windus, London. 1965.

YOU CAN ALWAYS TELL A FISHERMAN. Corey Hord. Holt, Rinehart, and Winston, Inc., New York. 1959.

YOUR FUTURE IN OCEANOGRAPHY. Norman H. Gaber. Arco Pub. Co., New York. 1975.

ZANE GREY, OUTDOORSMAN: ZANE GREY'S BEST HUNTING AND FISHING TALES. Zane Grey. Prentice-Hall, Inc., Englewood Cliffs, NJ. 1972.